

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

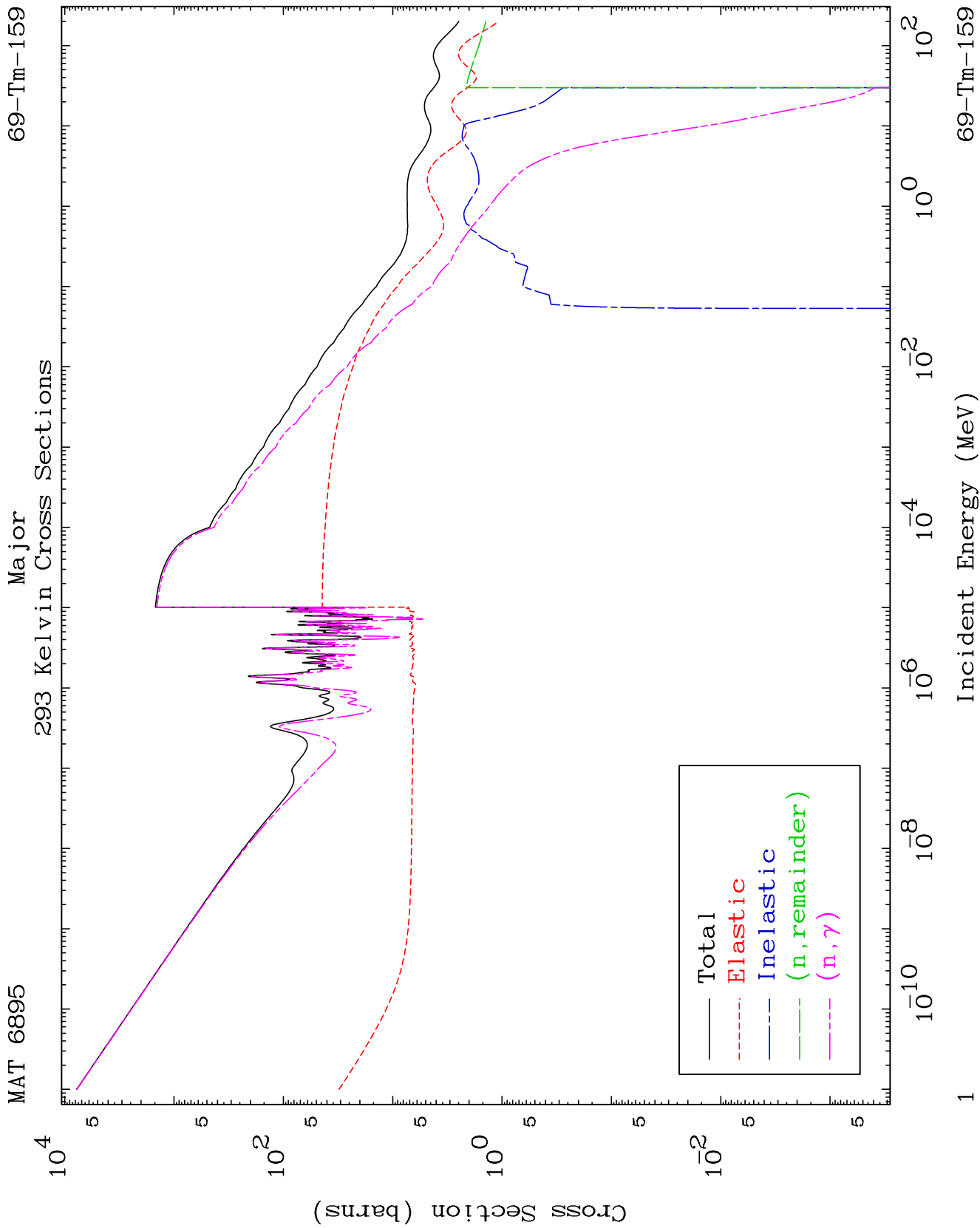
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Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

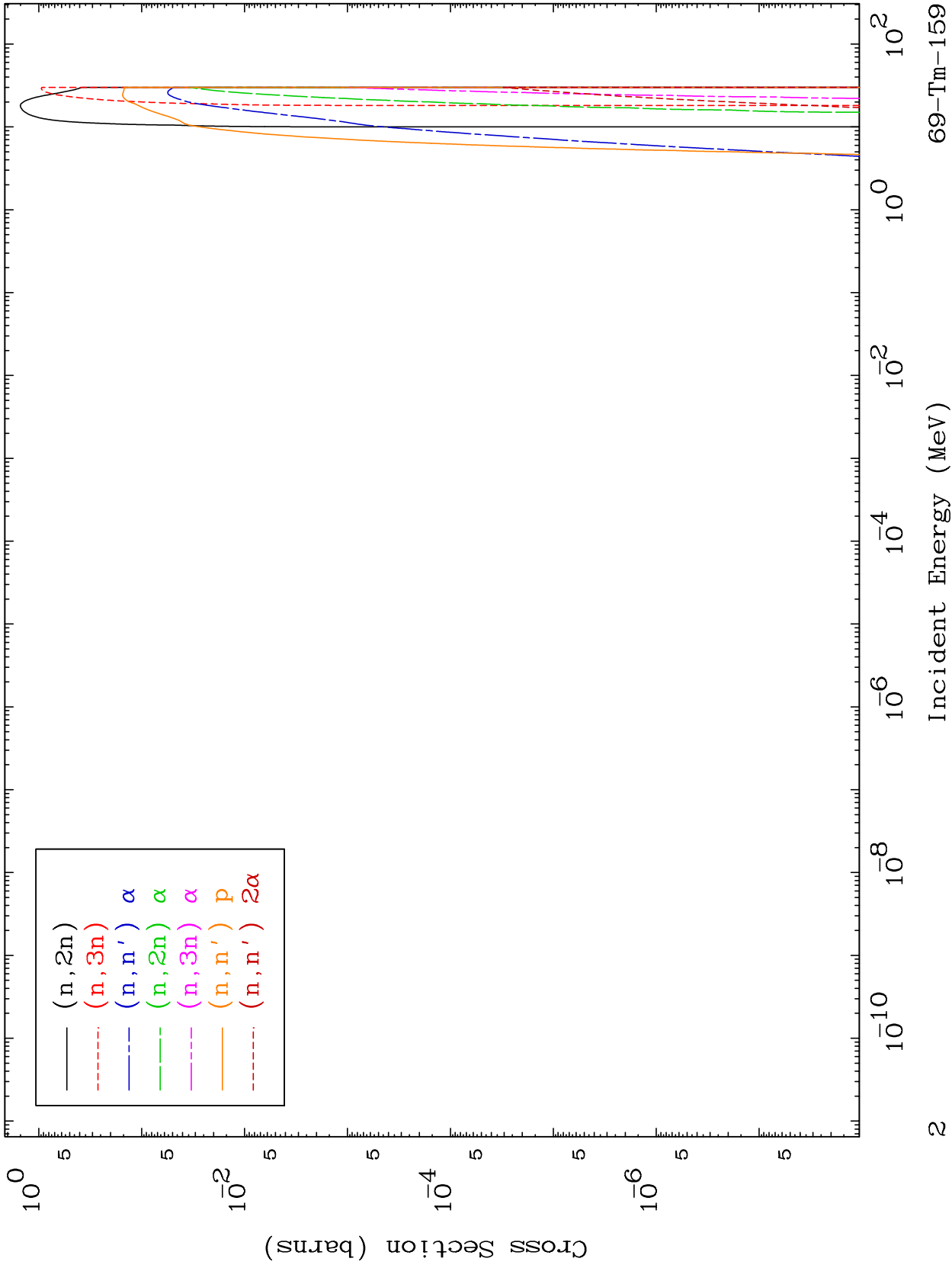
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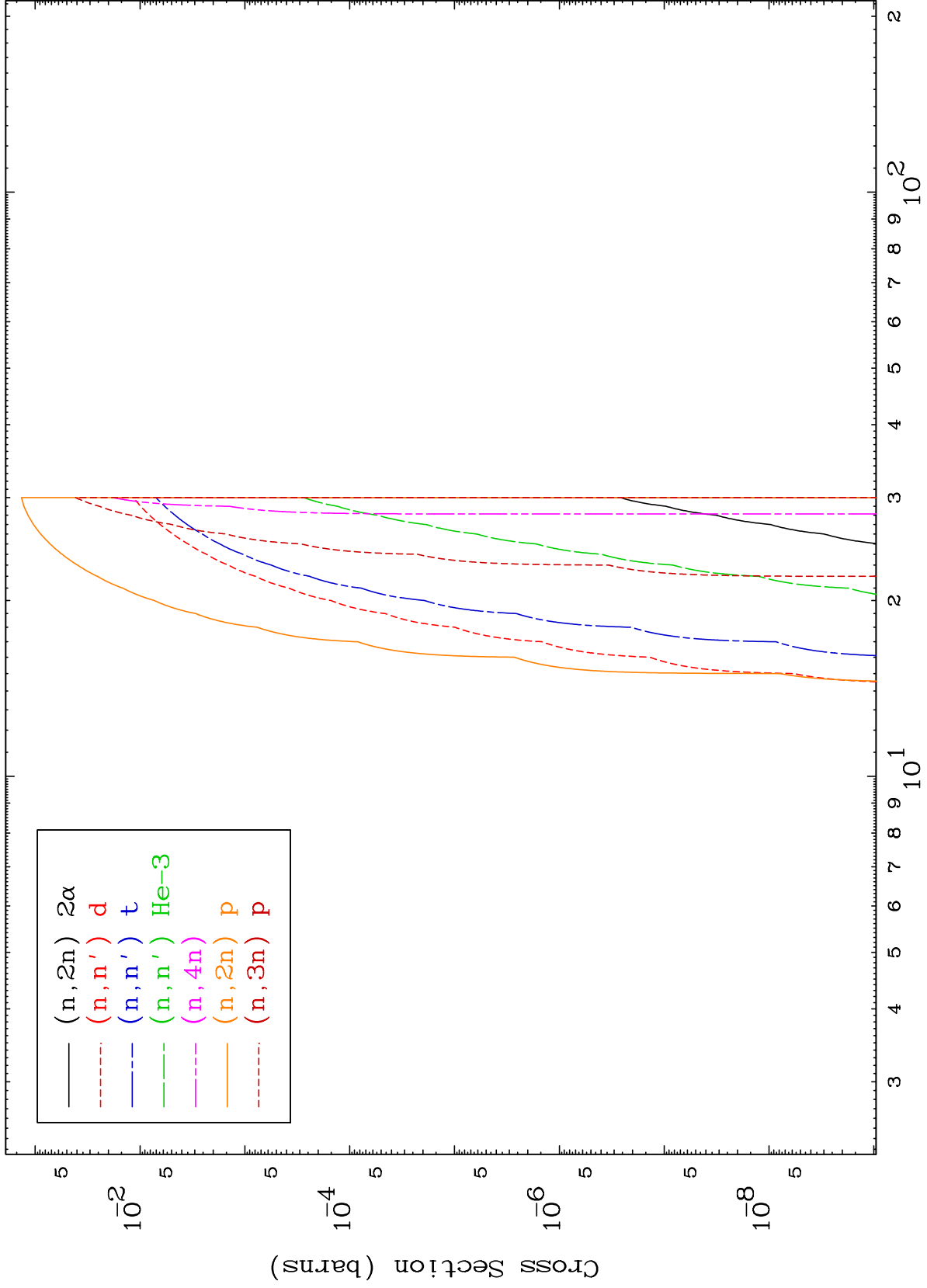


MAT 6895

Neutron Production
293 Kelvin Cross Sections

69-Tm-159

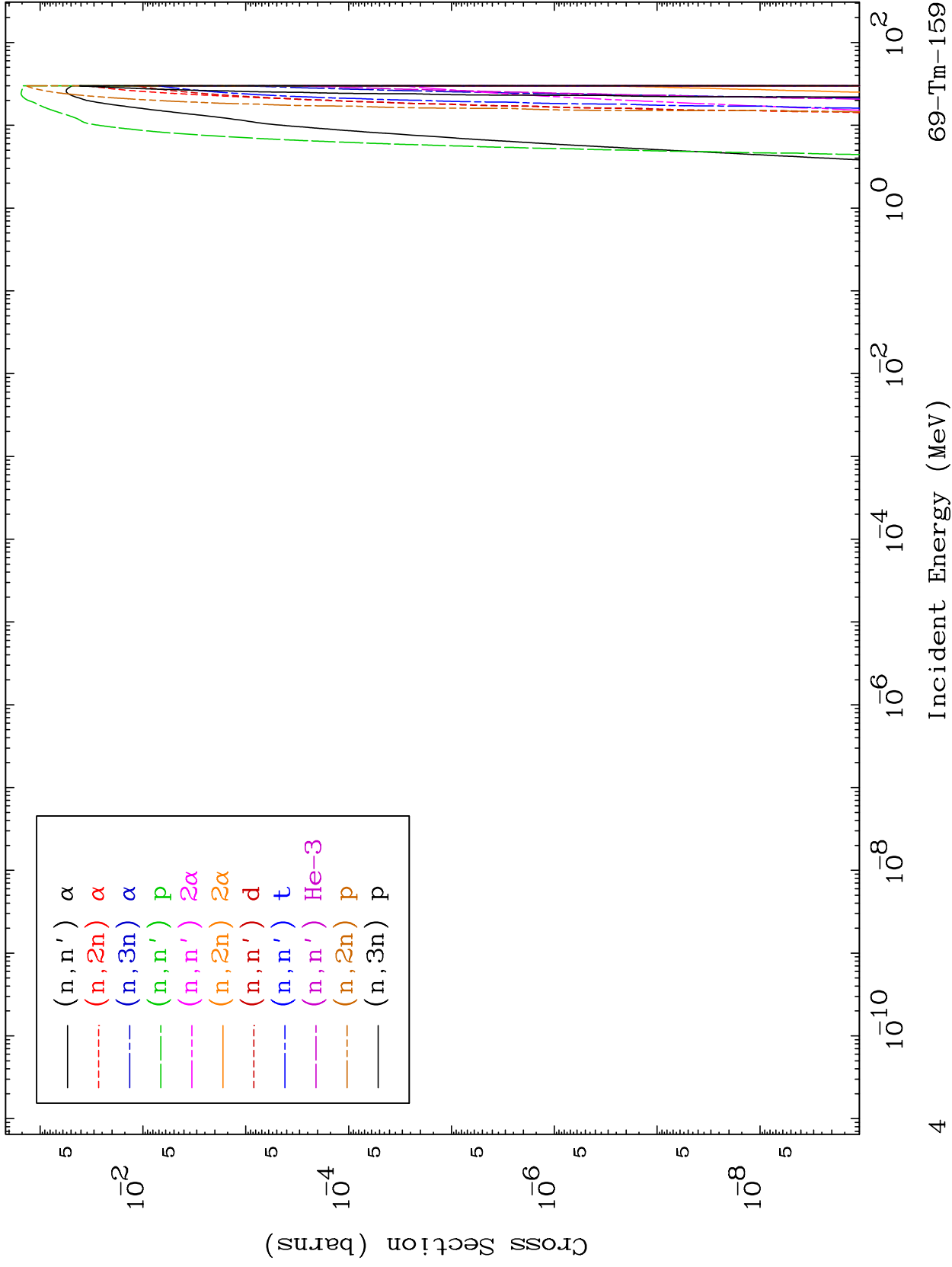




MAT 6895

Charged Particle
293 Kelvin Cross Sections

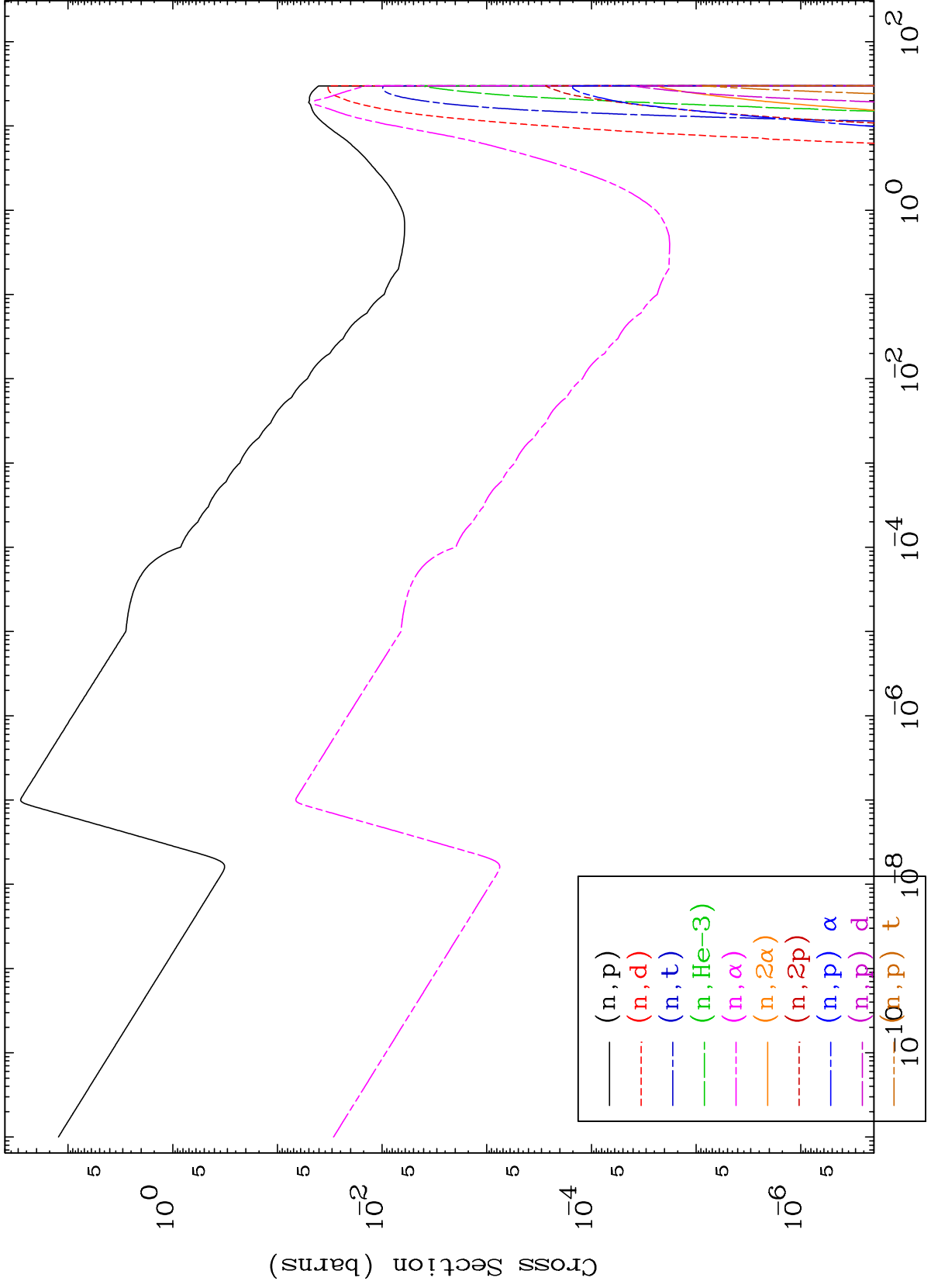
69-Tm-159



MAT 6895

Charged Particle
293 Kelvin Cross Sections

69-Tm-159



5

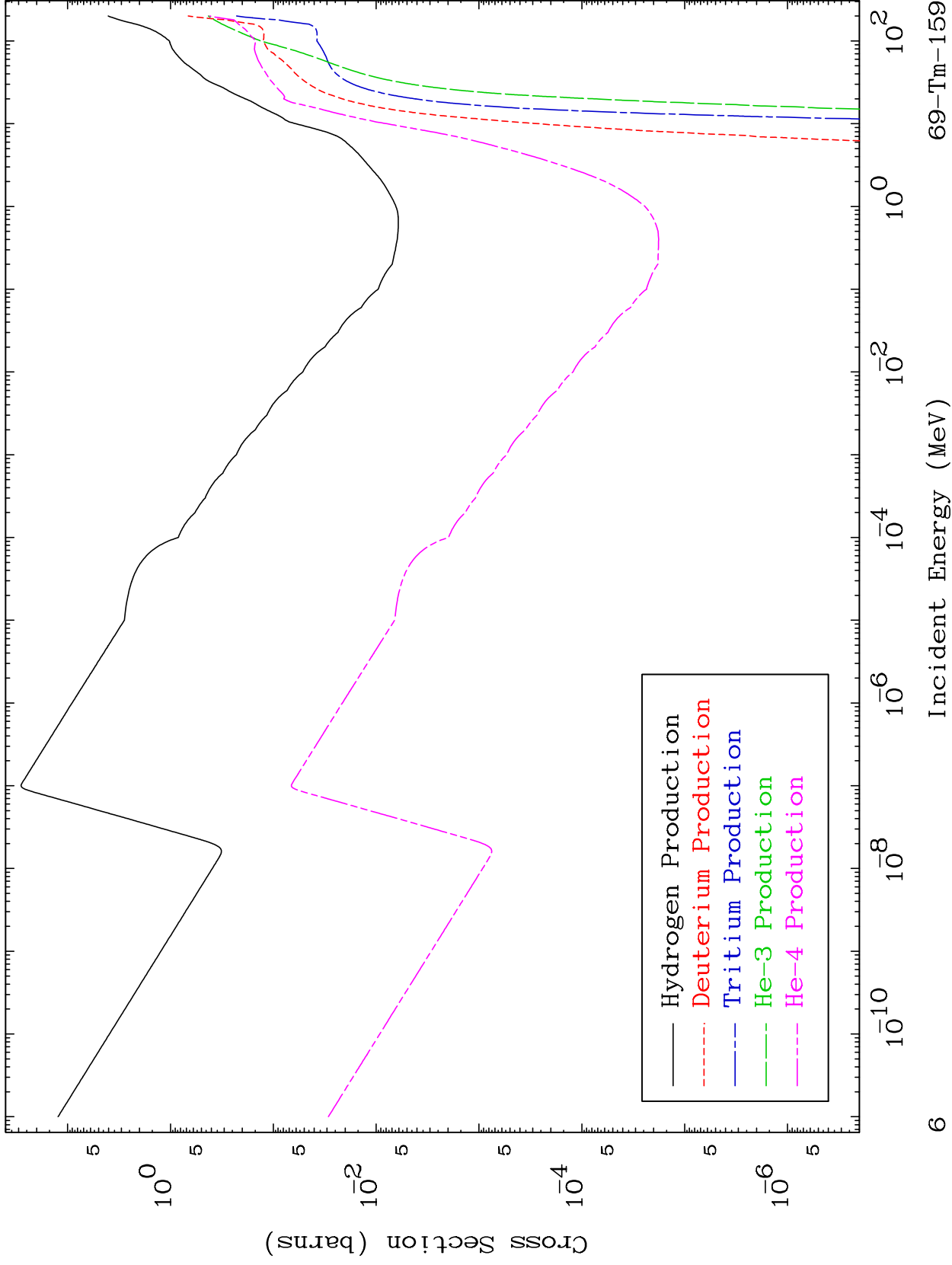
Incident Energy (MeV)

69-Tm-159

MAT 6895

Particle Production
293 Kelvin Cross Sections

69-Tm-159

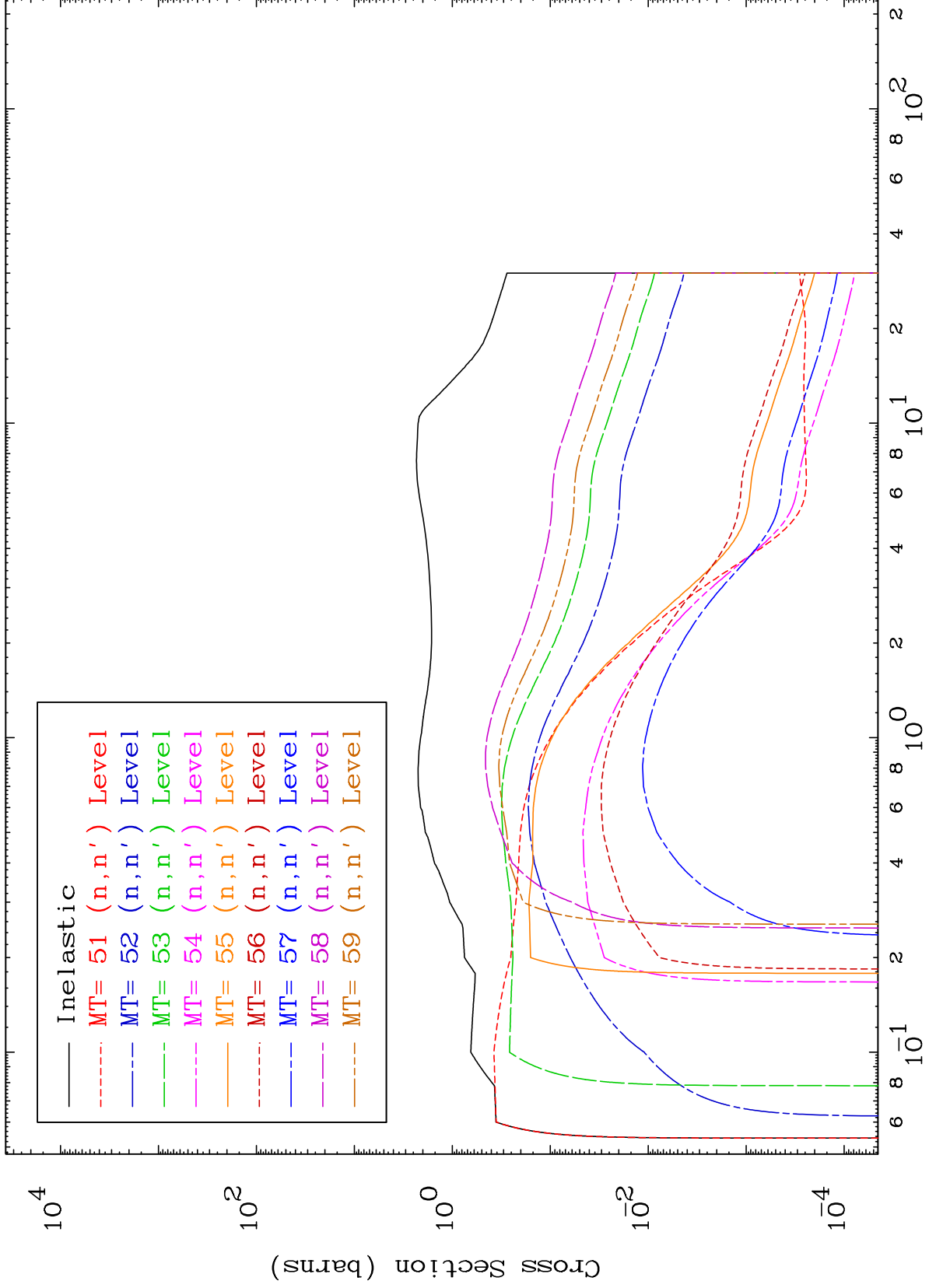


MAT 6895

(n,n') Level

69-Tm-159

293 Kelvin Cross Sections

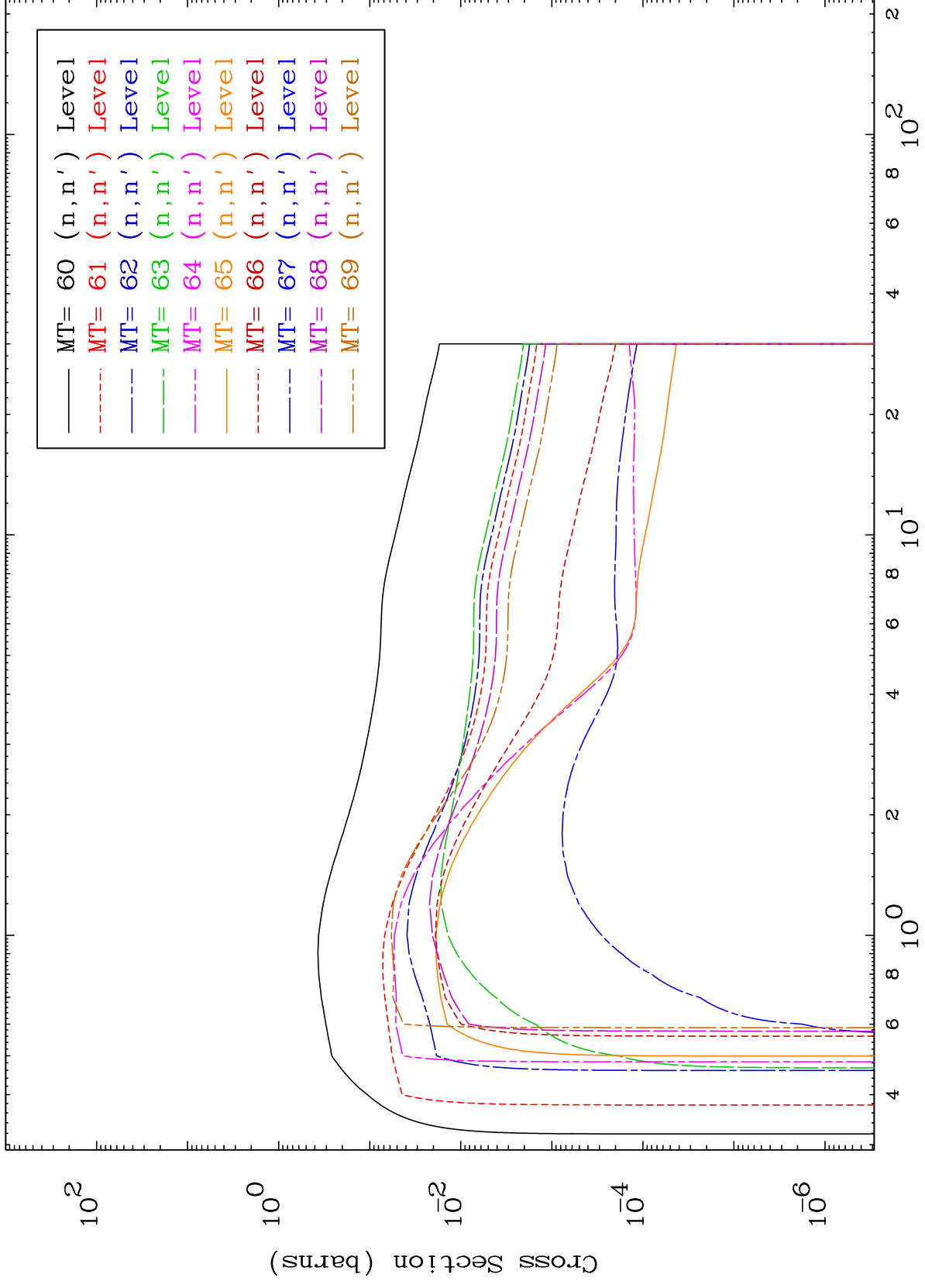


MAT 6895

(n,n') Level

293 Kelvin Cross Sections

69-Tm-159



8

Incident Energy (MeV)

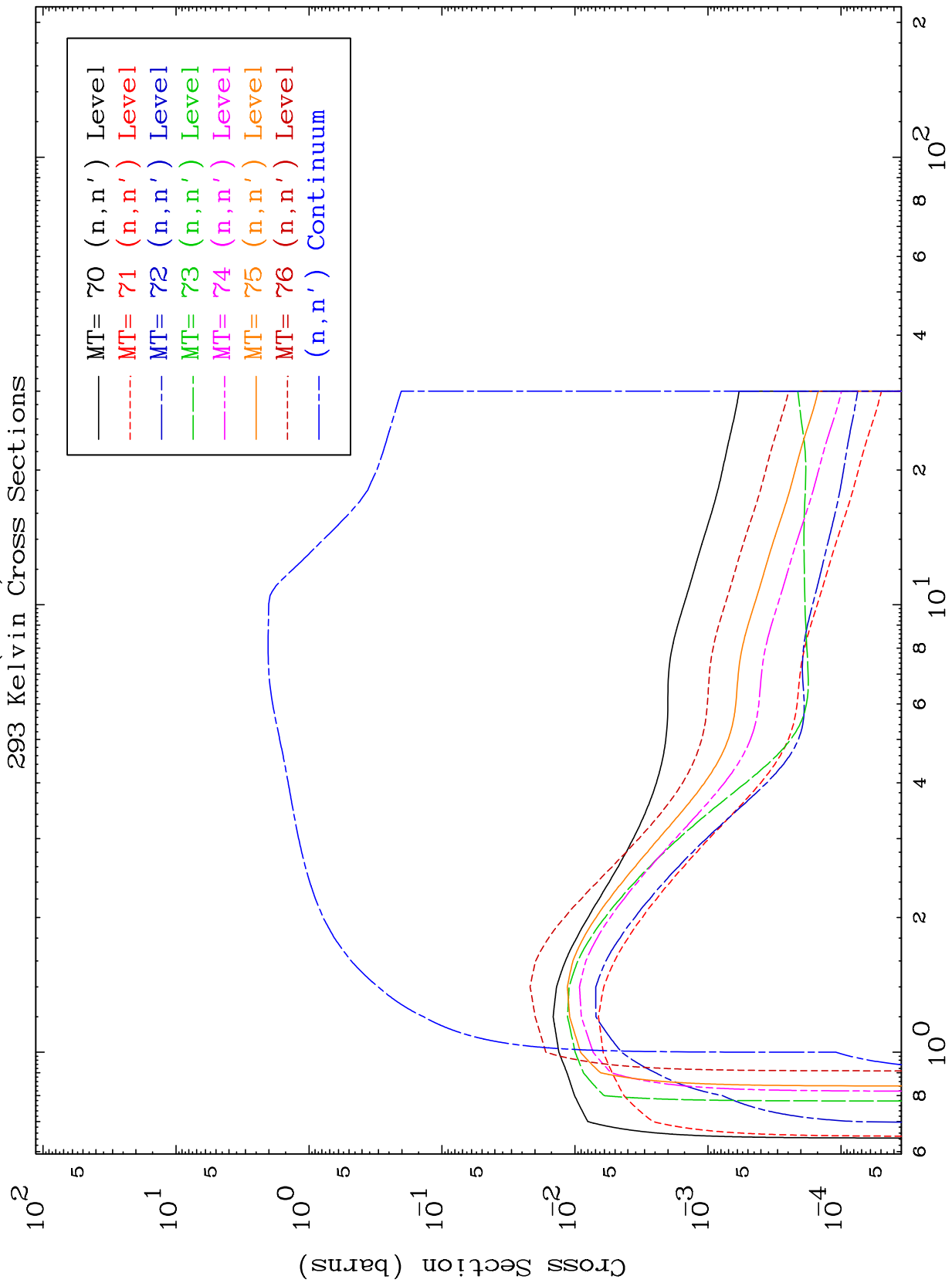
69-Tm-159

MAT 6895

(n,n') Level

69-Tm-159

293 Kelvin Cross Sections



9

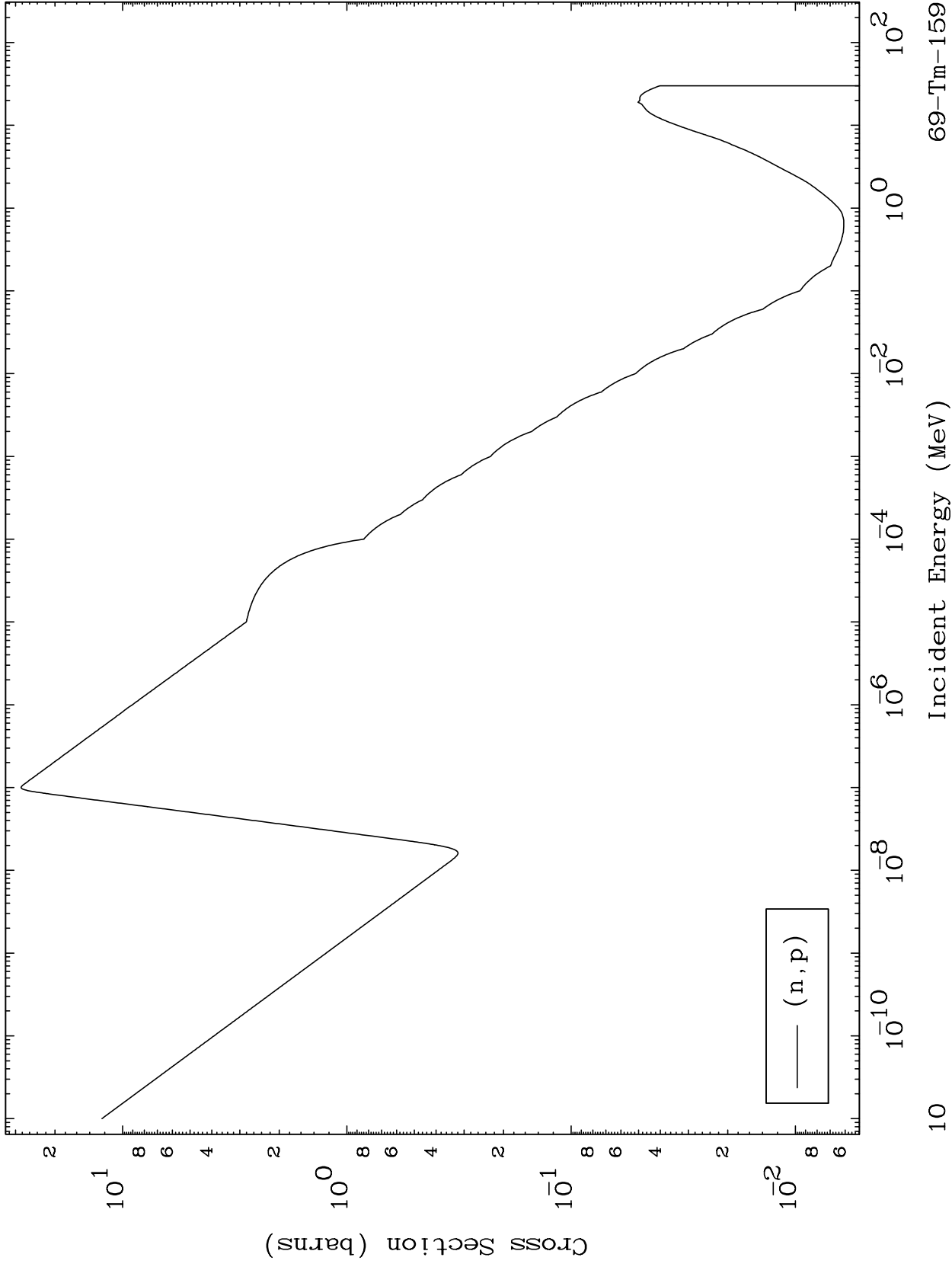
Incident Energy (MeV)

69-Tm-159

MAT 6895

(n,p) Levels
293 Kelvin Cross Sections

69-Tm-159



10

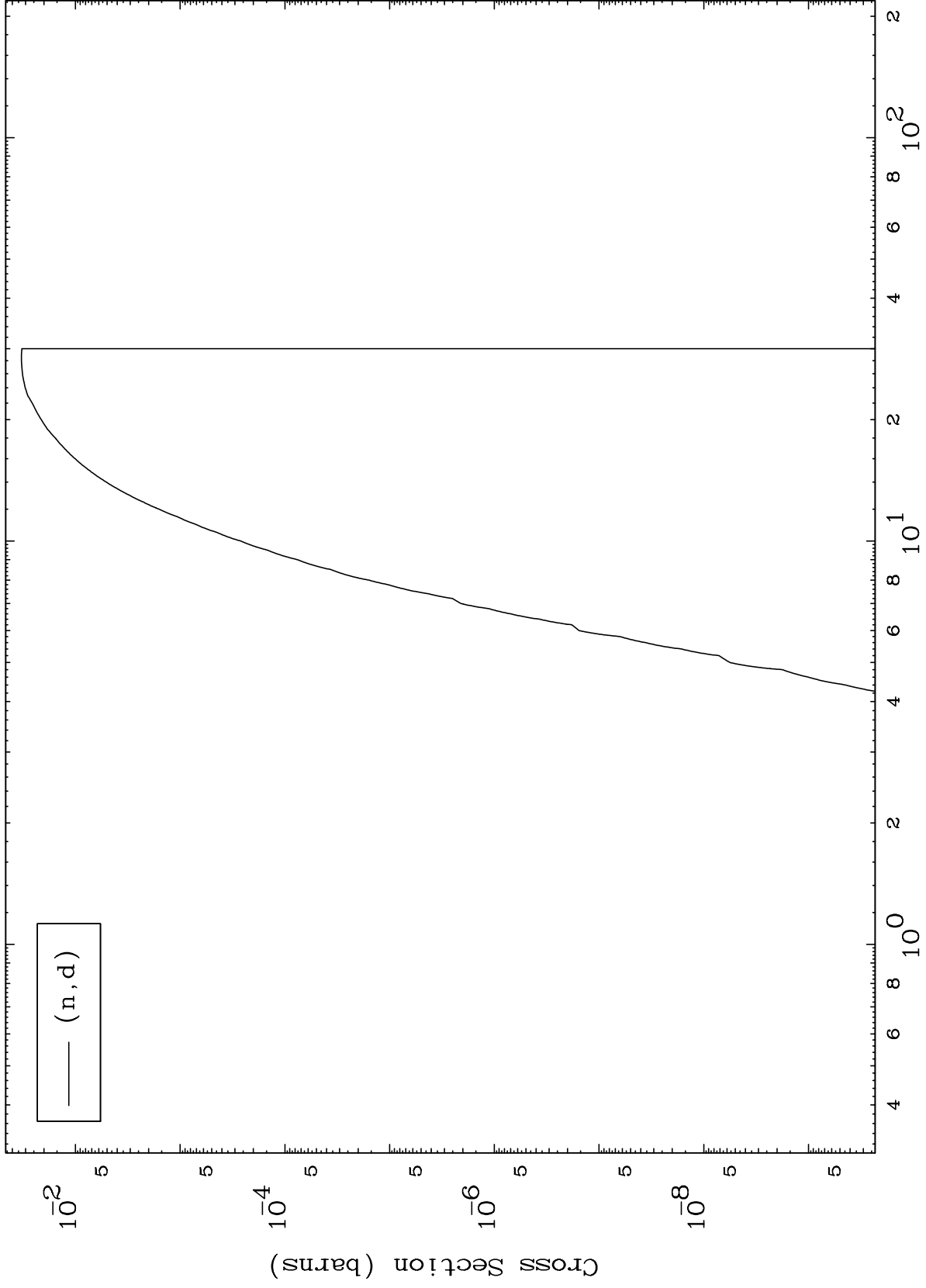
Incident Energy (MeV)

69-Tm-159

MAT 6895

(n,d) Levels
293 Kelvin Cross Sections

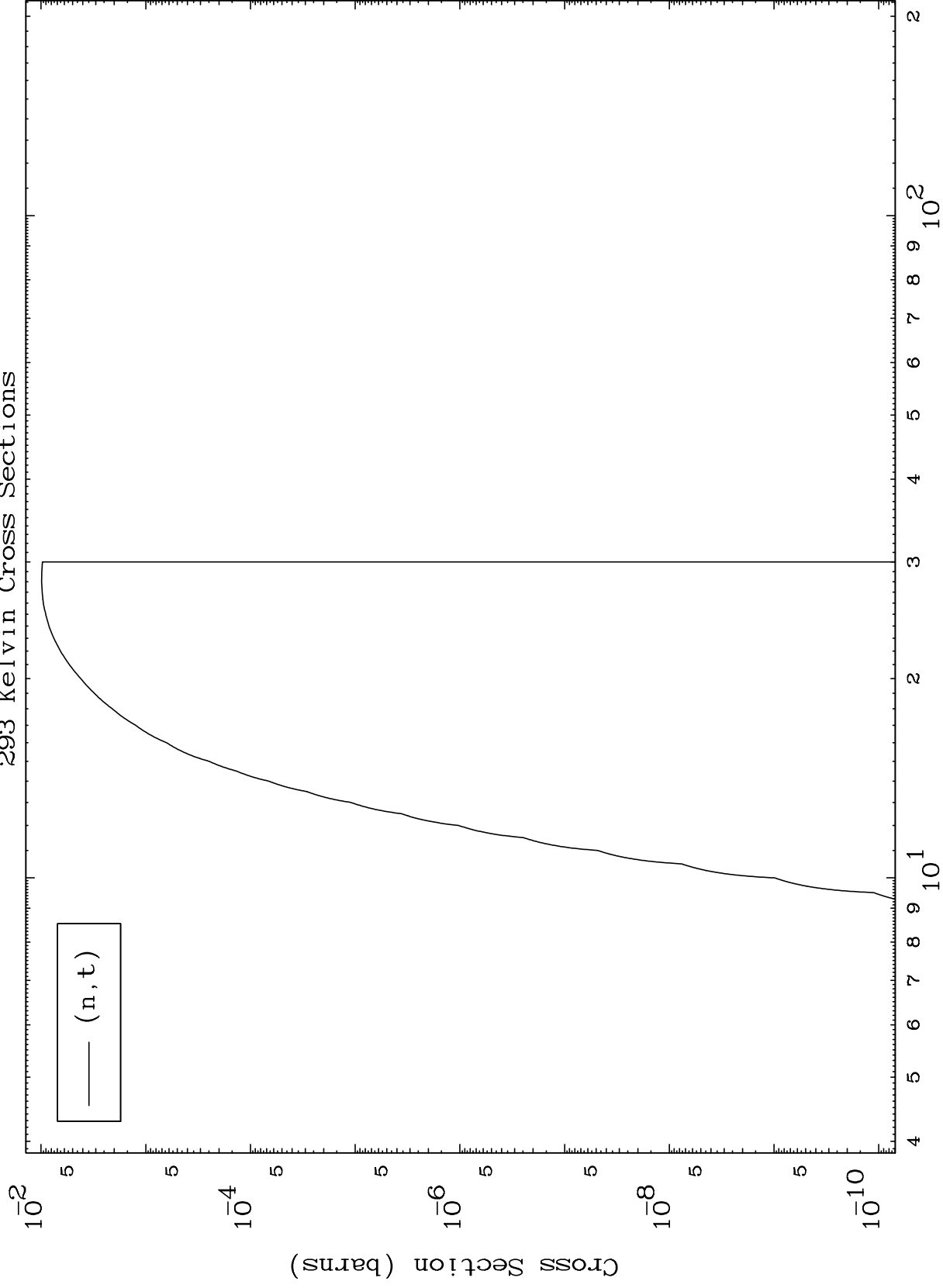
69-Tm-159



MAT 6895

(n,t) Levels
293 Kelvin Cross Sections

69-Tm-159



12

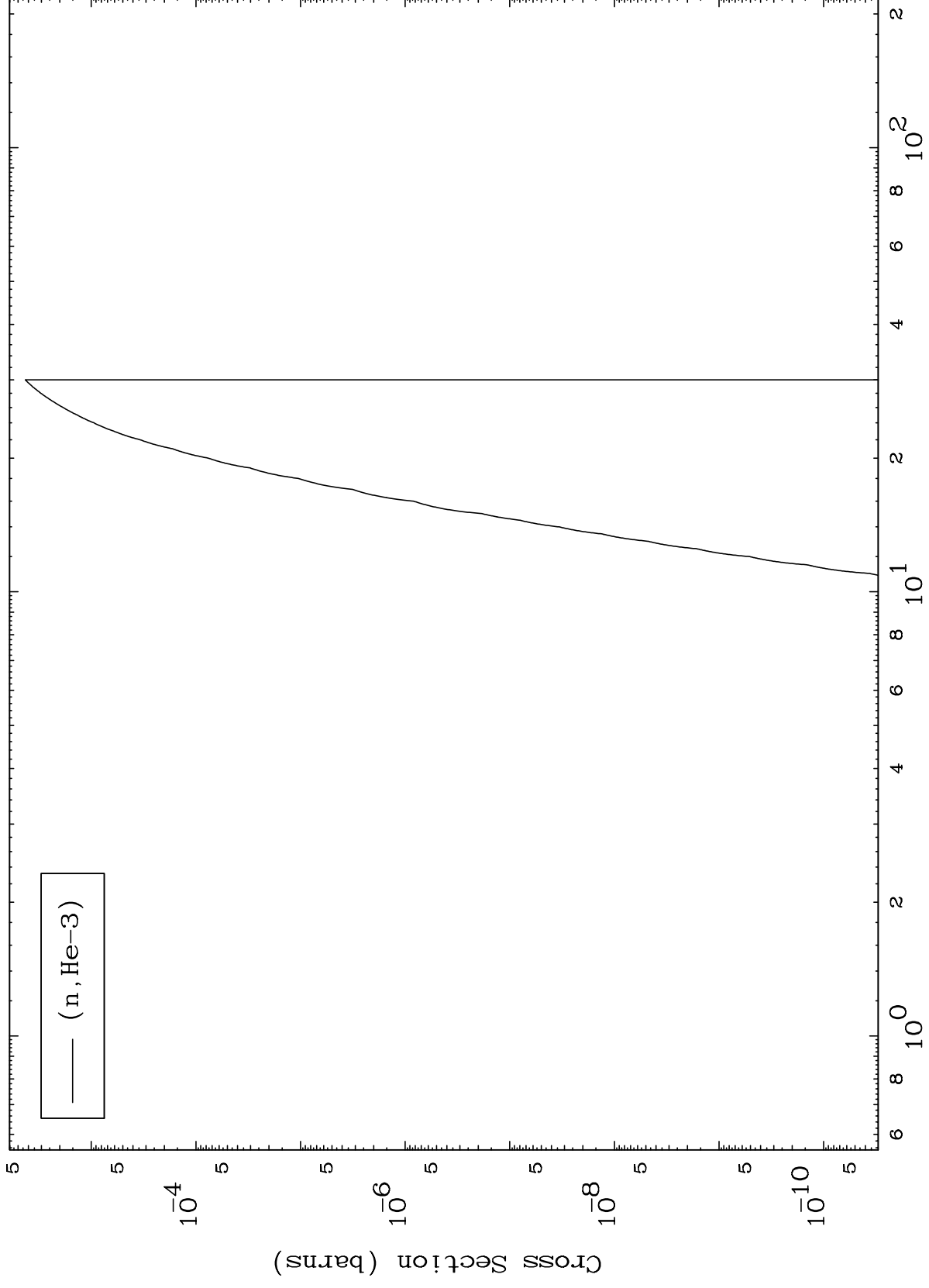
Incident Energy (MeV)

69-Tm-159

MAT 6895

(n,He3) Levels
293 Kelvin Cross Sections

69-Tm-159



13

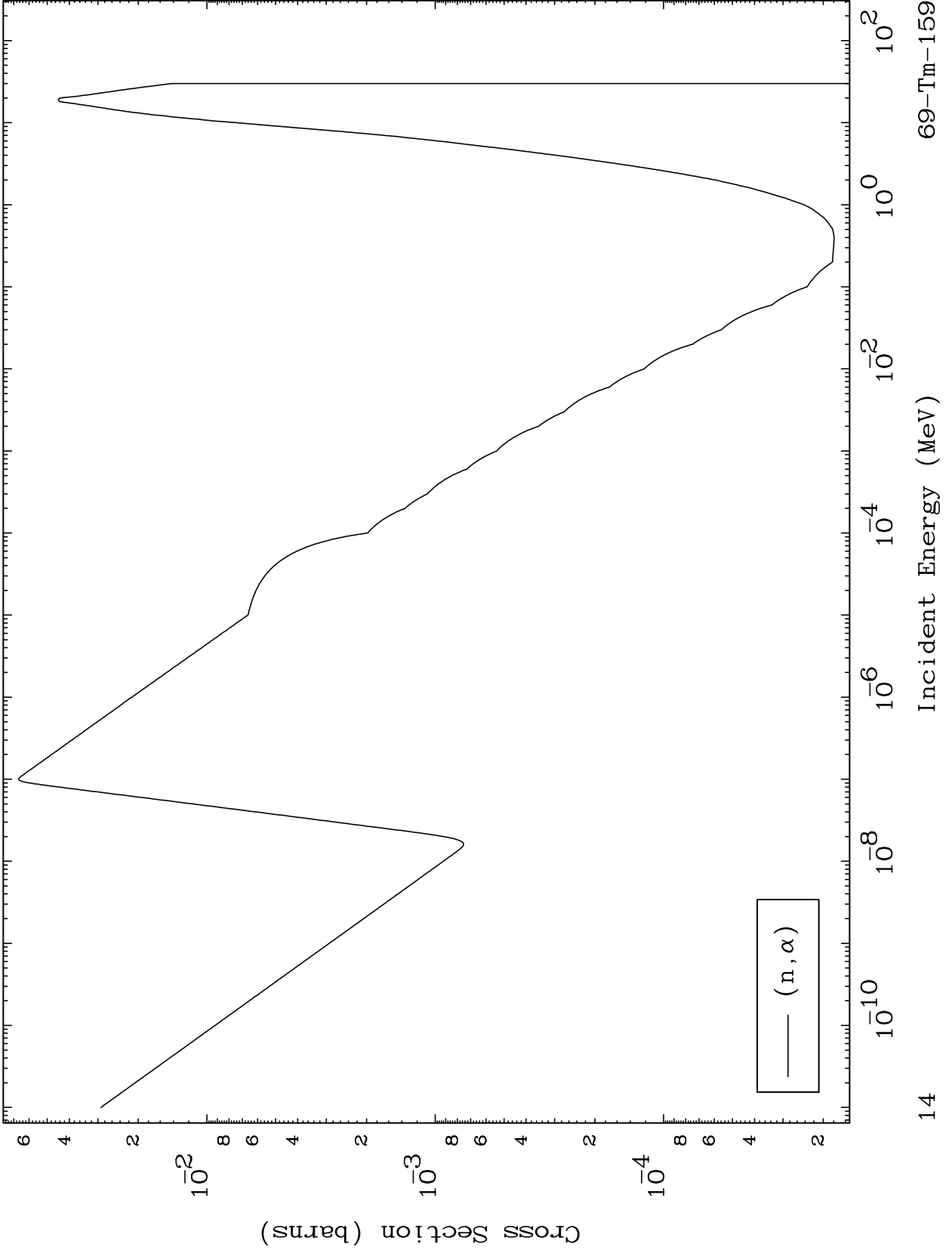
Incident Energy (MeV)

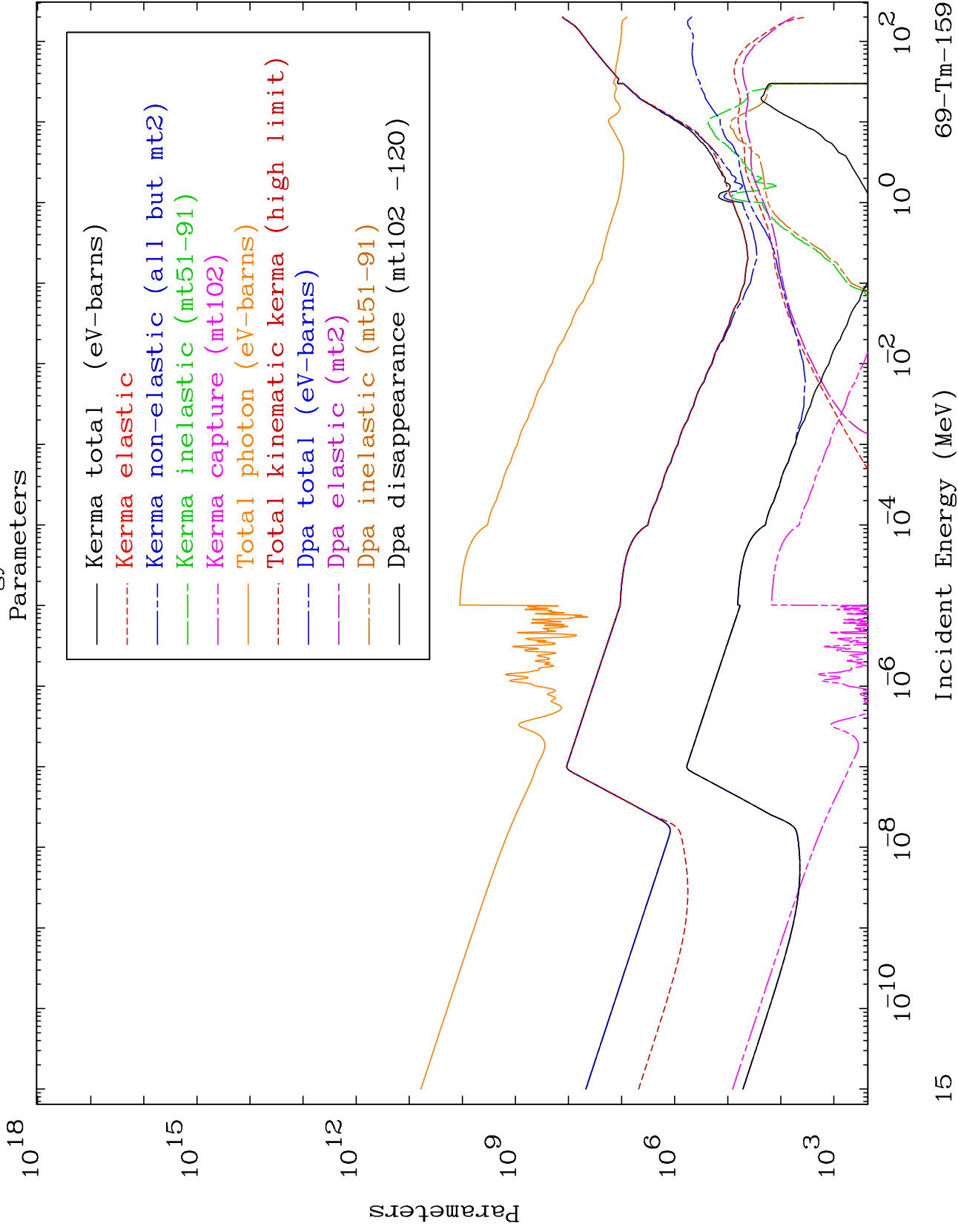
69-Tm-159

MAT 6895

(n, α) Levels
293 Kelvin Cross Sections

69-Tm-159

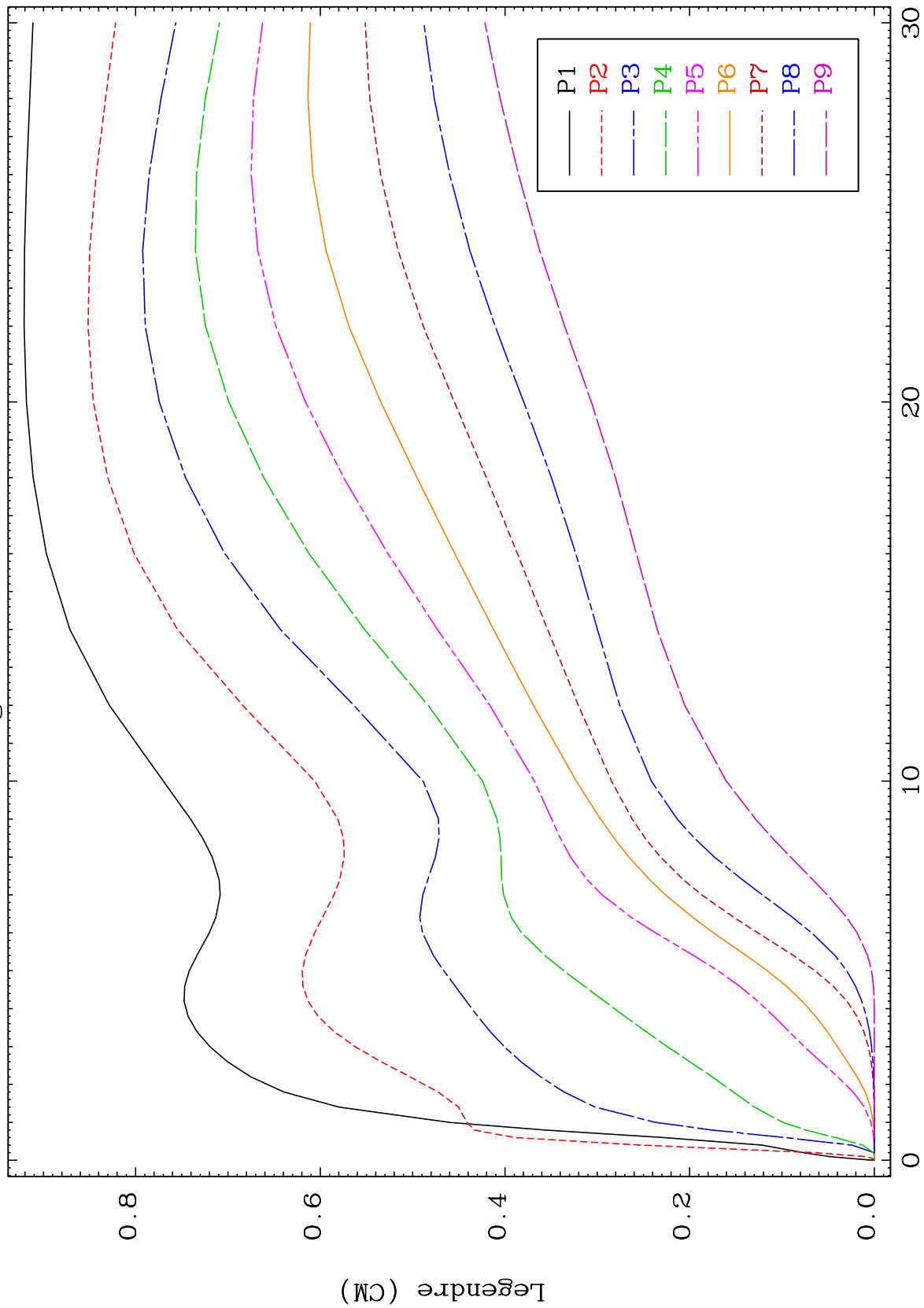




MAT 6895

Elastic Legendre Coefficients

69-Tm-159



16

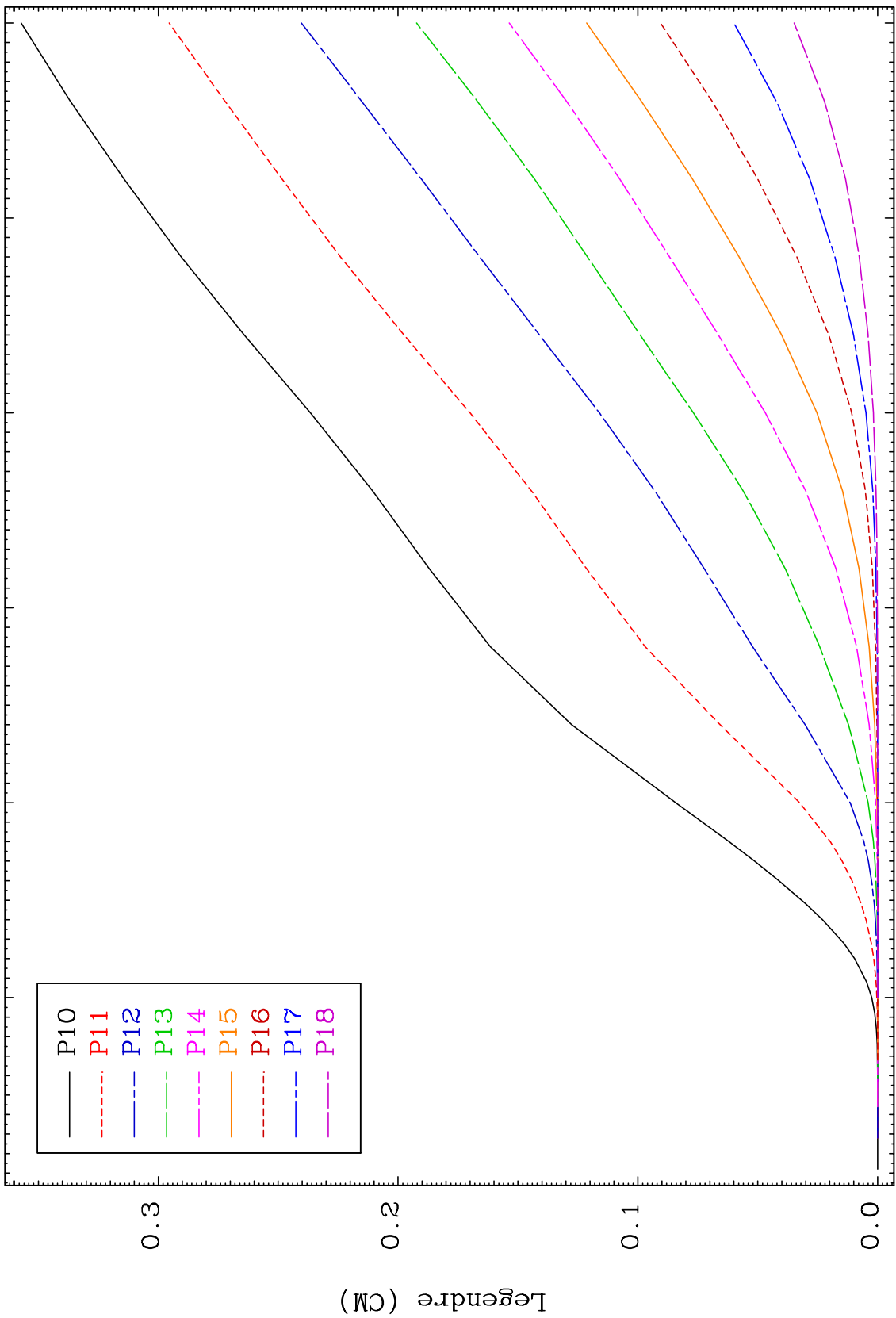
Incident Energy (MeV)

69-Tm-159

MAT 6895

Elastic Legendre Coefficients

69-Tm-159



17

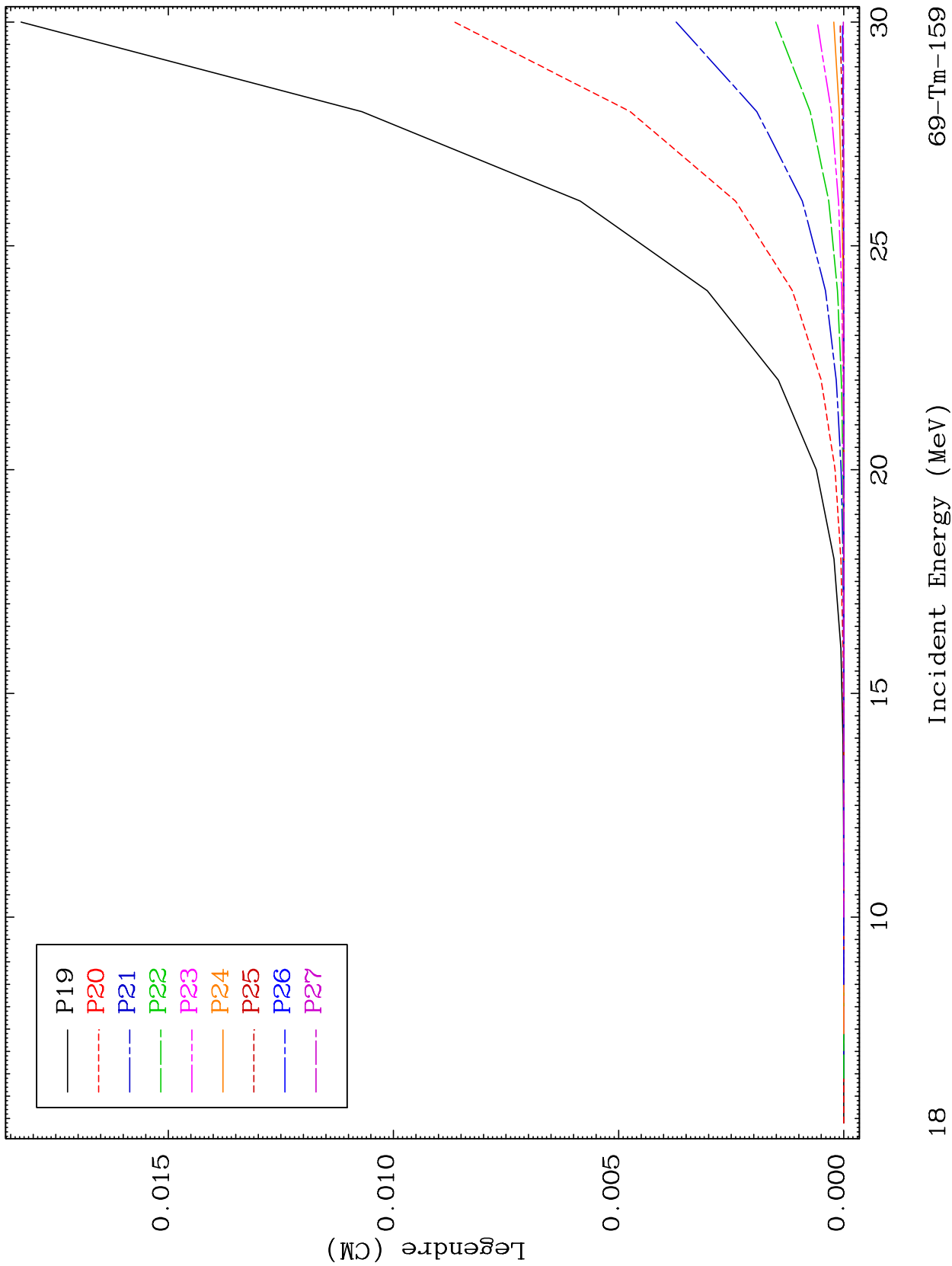
Incident Energy (MeV)

69-Tm-159

MAT 6895

Elastic Legendre Coefficients

69-Tm-159



18

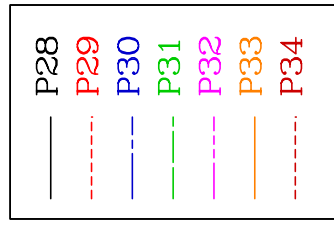
Incident Energy (MeV)

69-Tm-159

MAT 6895

Elastic Legendre Coefficients

69-Tm-159



$\times 10^{-6}$

Legendre (CM)

2

1

0

15

20

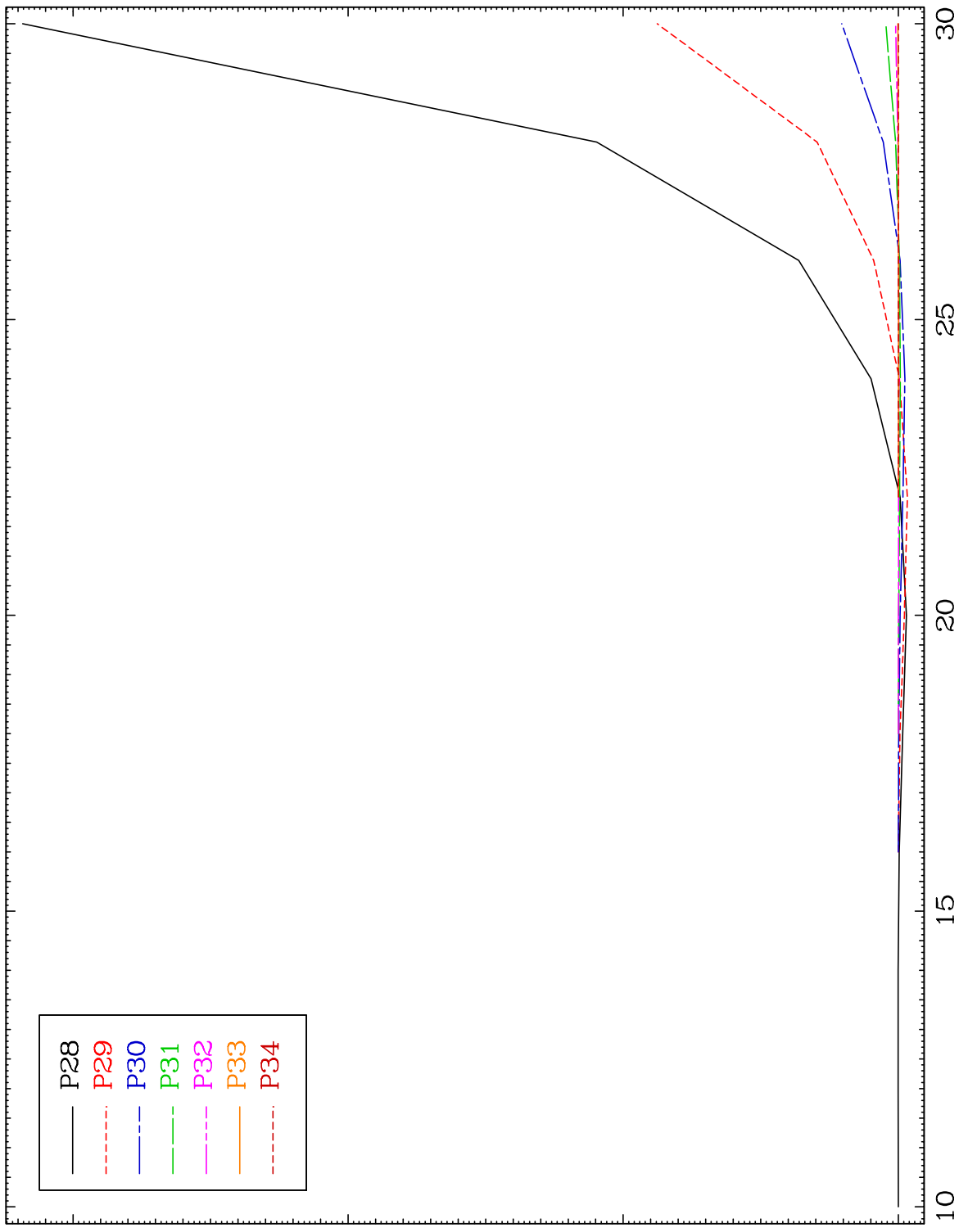
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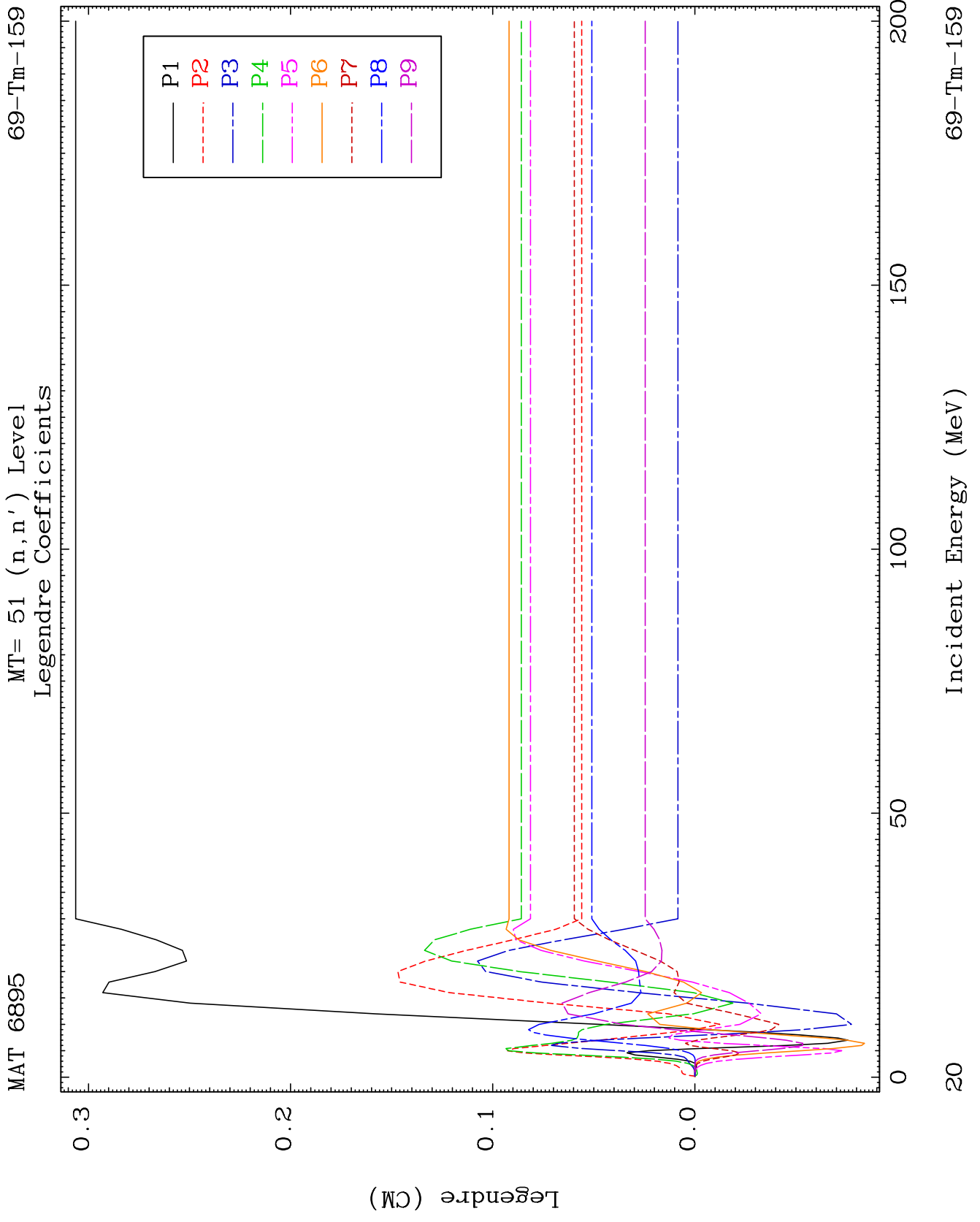
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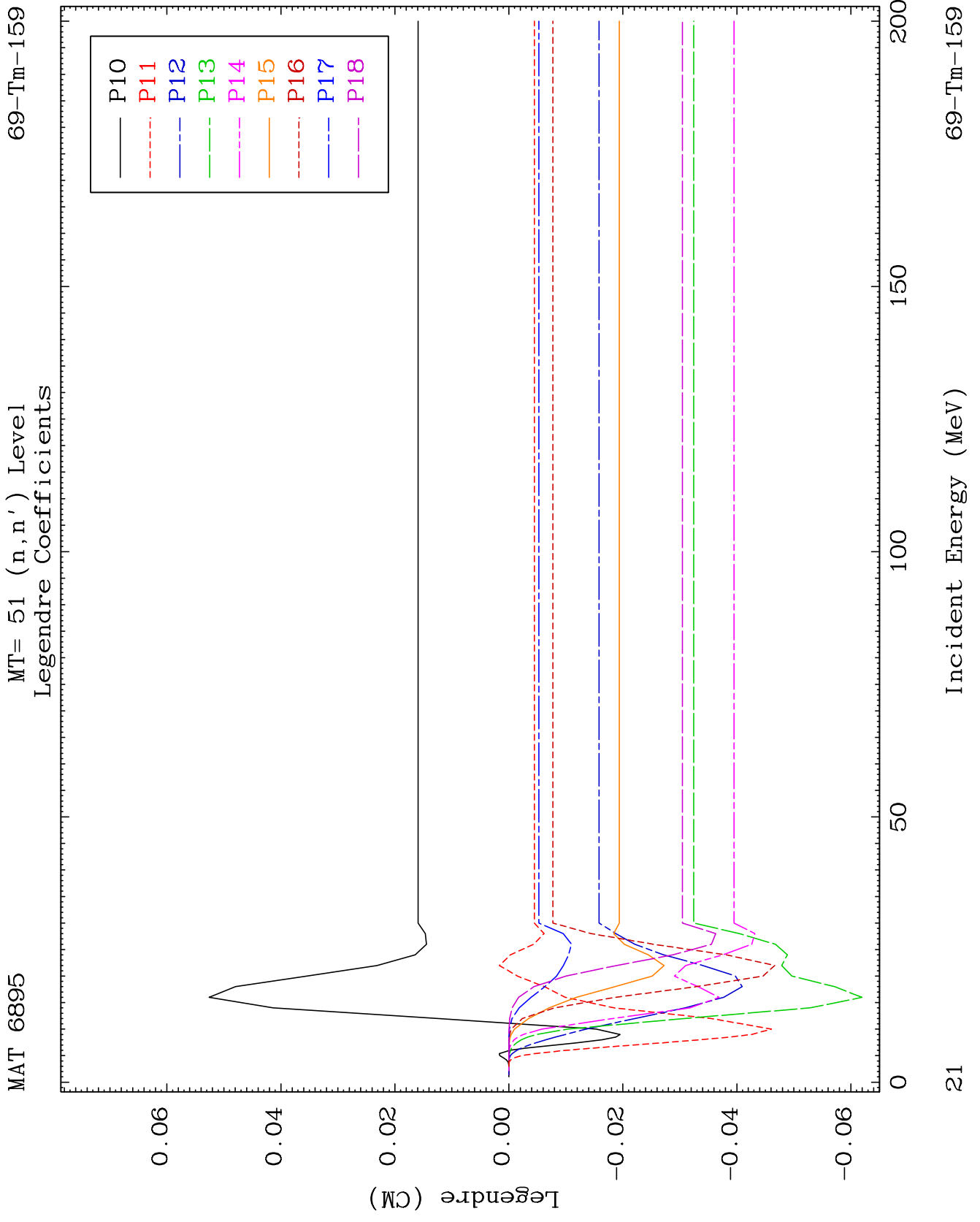
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Incident Energy (MeV)

69-Tm-159



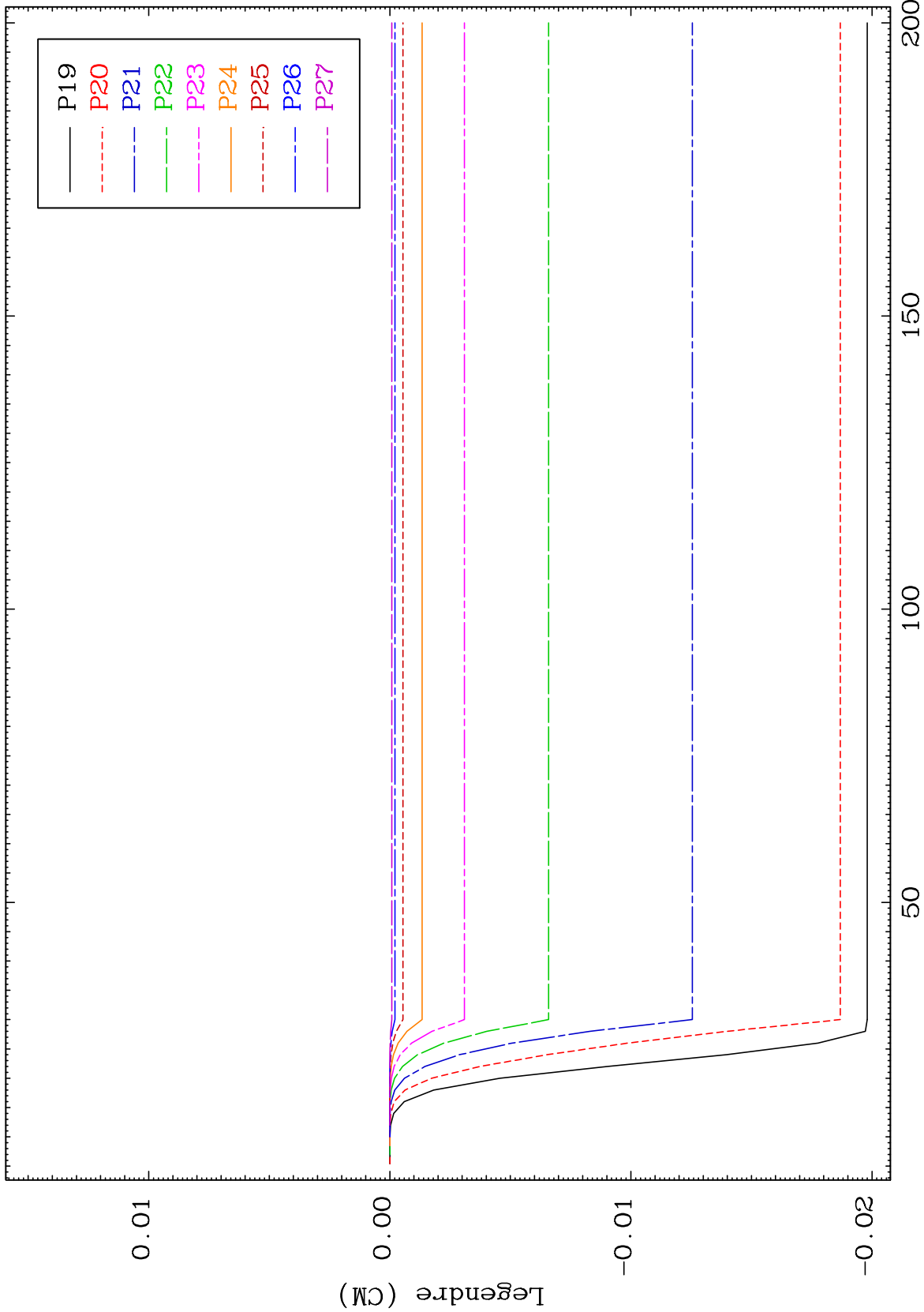




MAT 6895

MT= 51 (n,n') Level
Legendre Coefficients

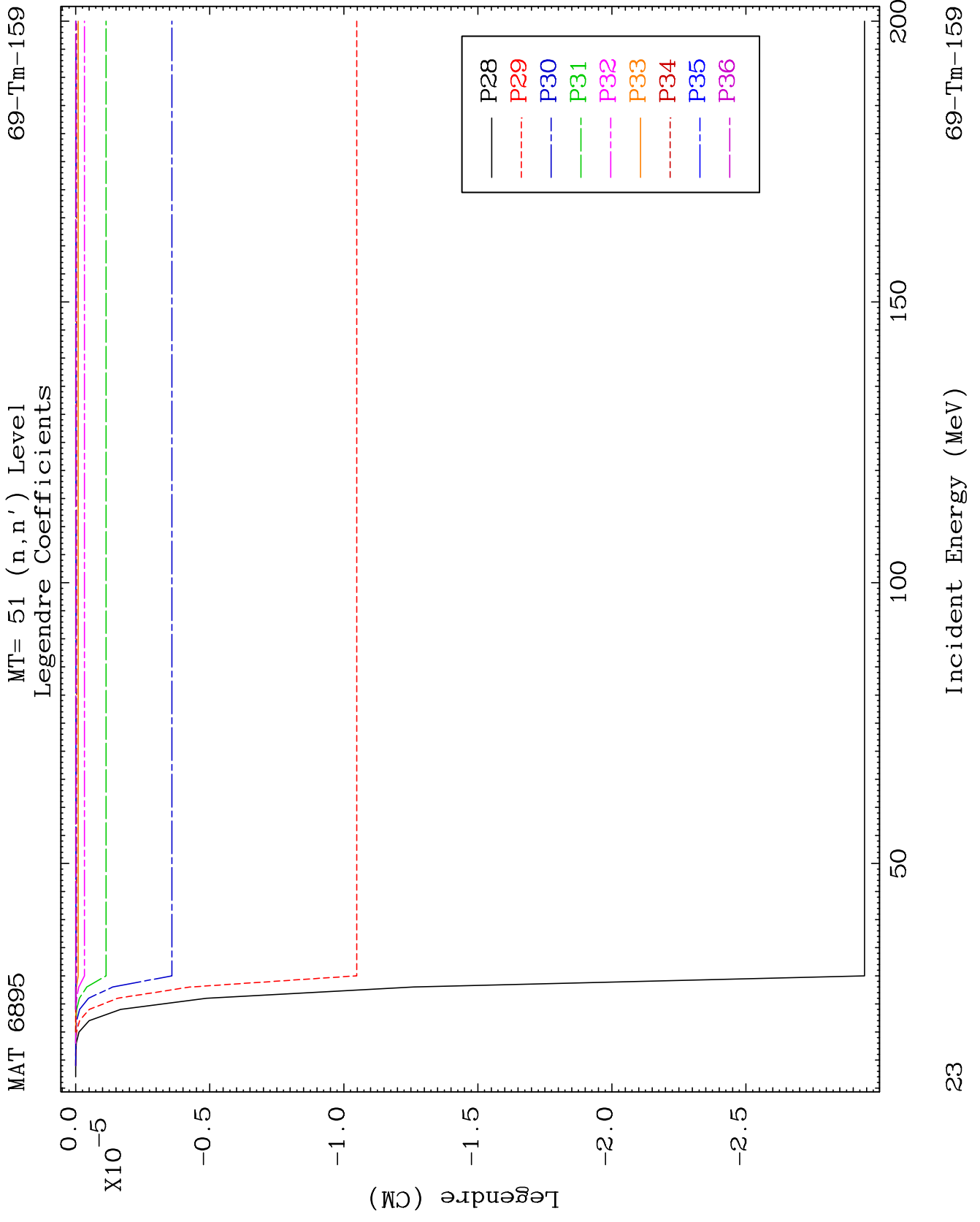
69-Tm-159

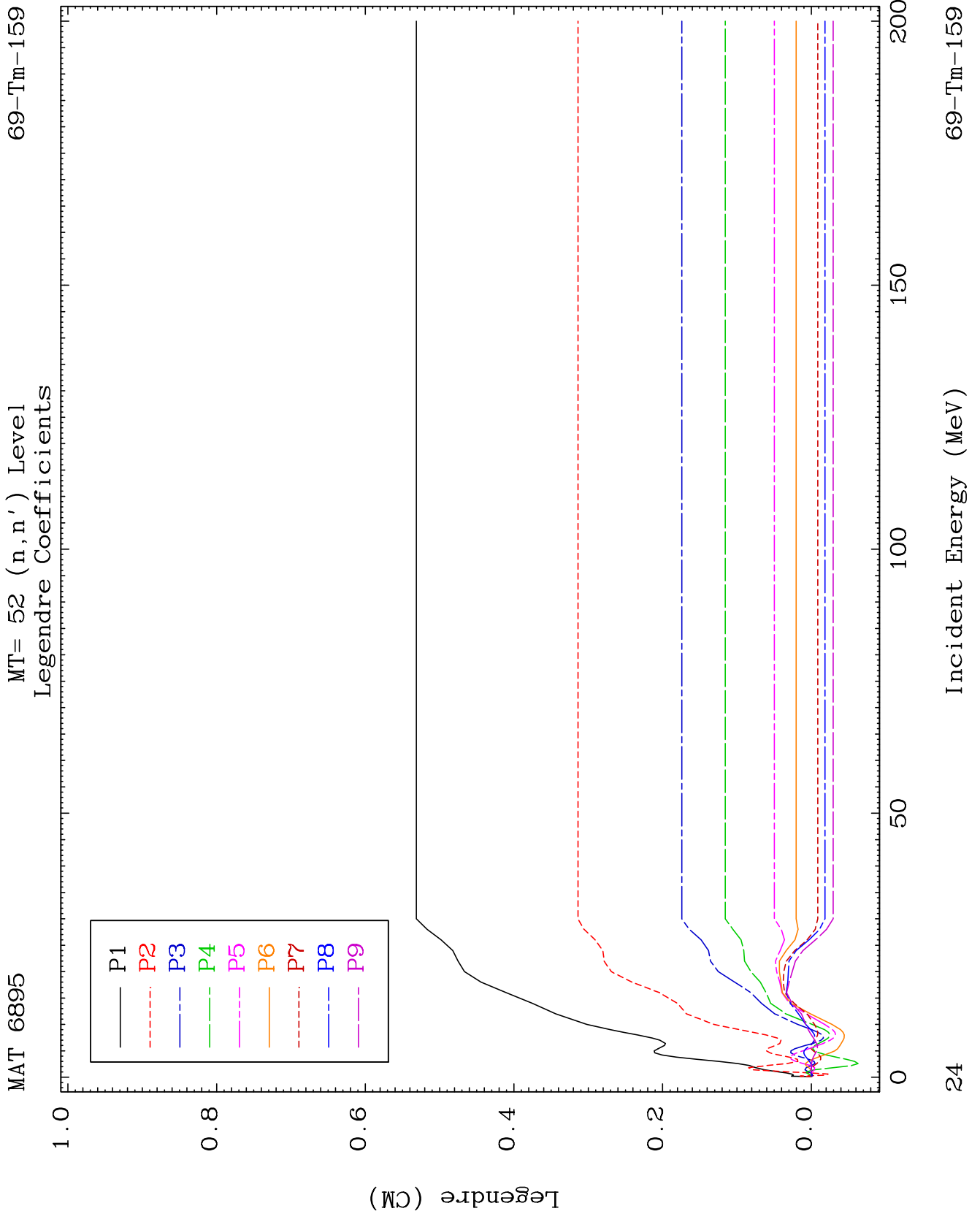


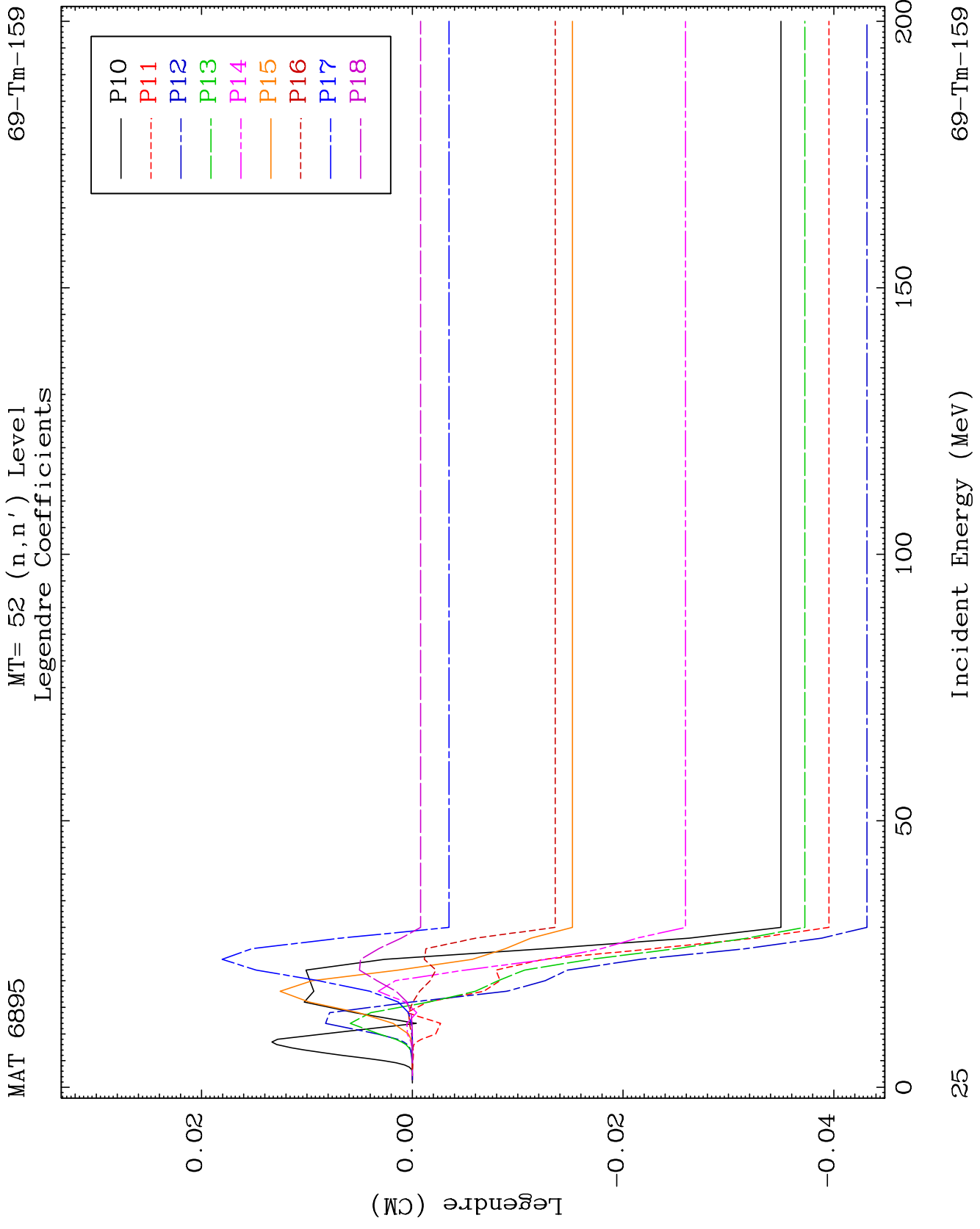
22

Incident Energy (MeV)

69-Tm-159



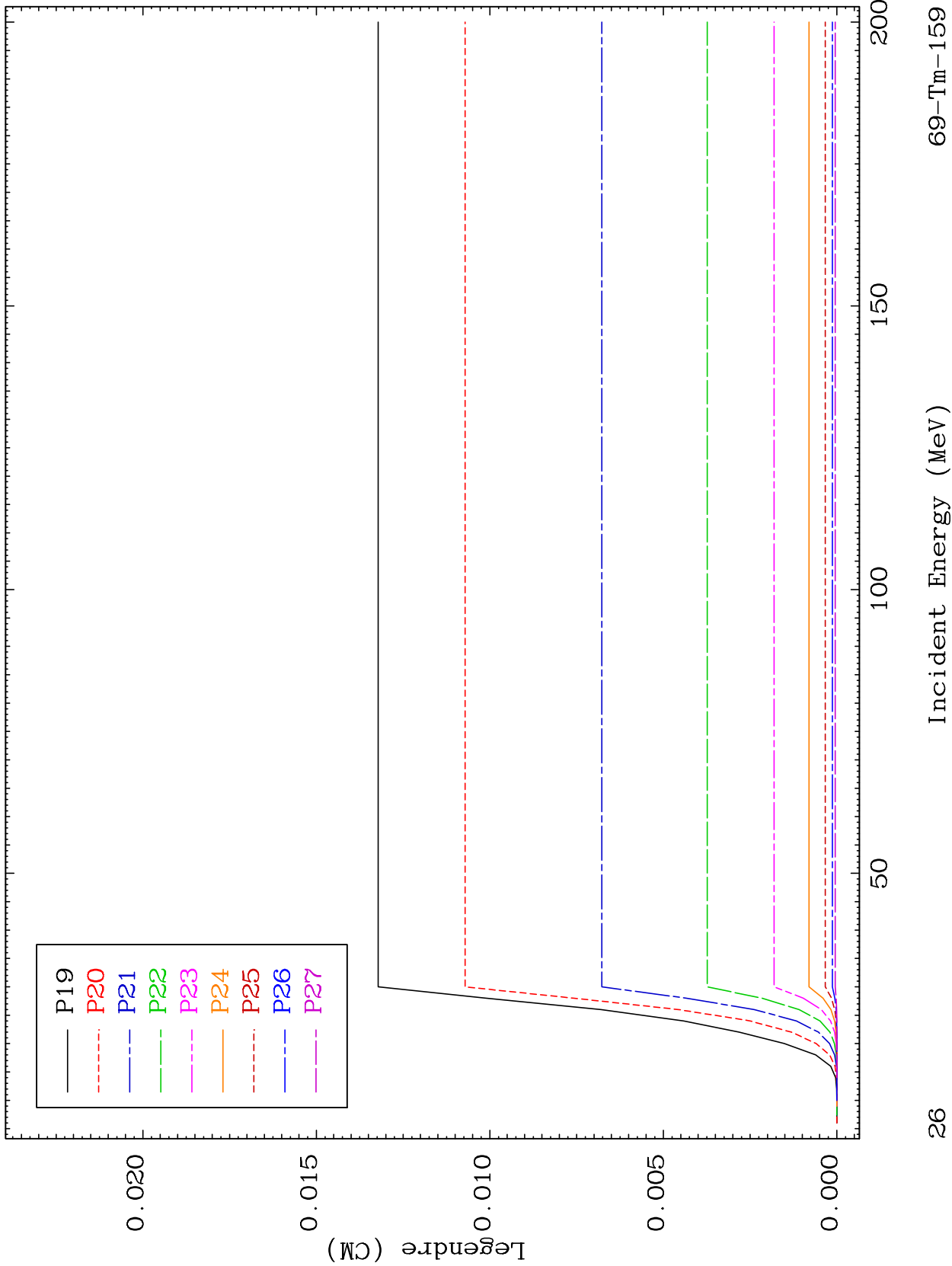




MAT 6895

MT= 52 (n,n') Level
Legendre Coefficients

69-Tm-159



26

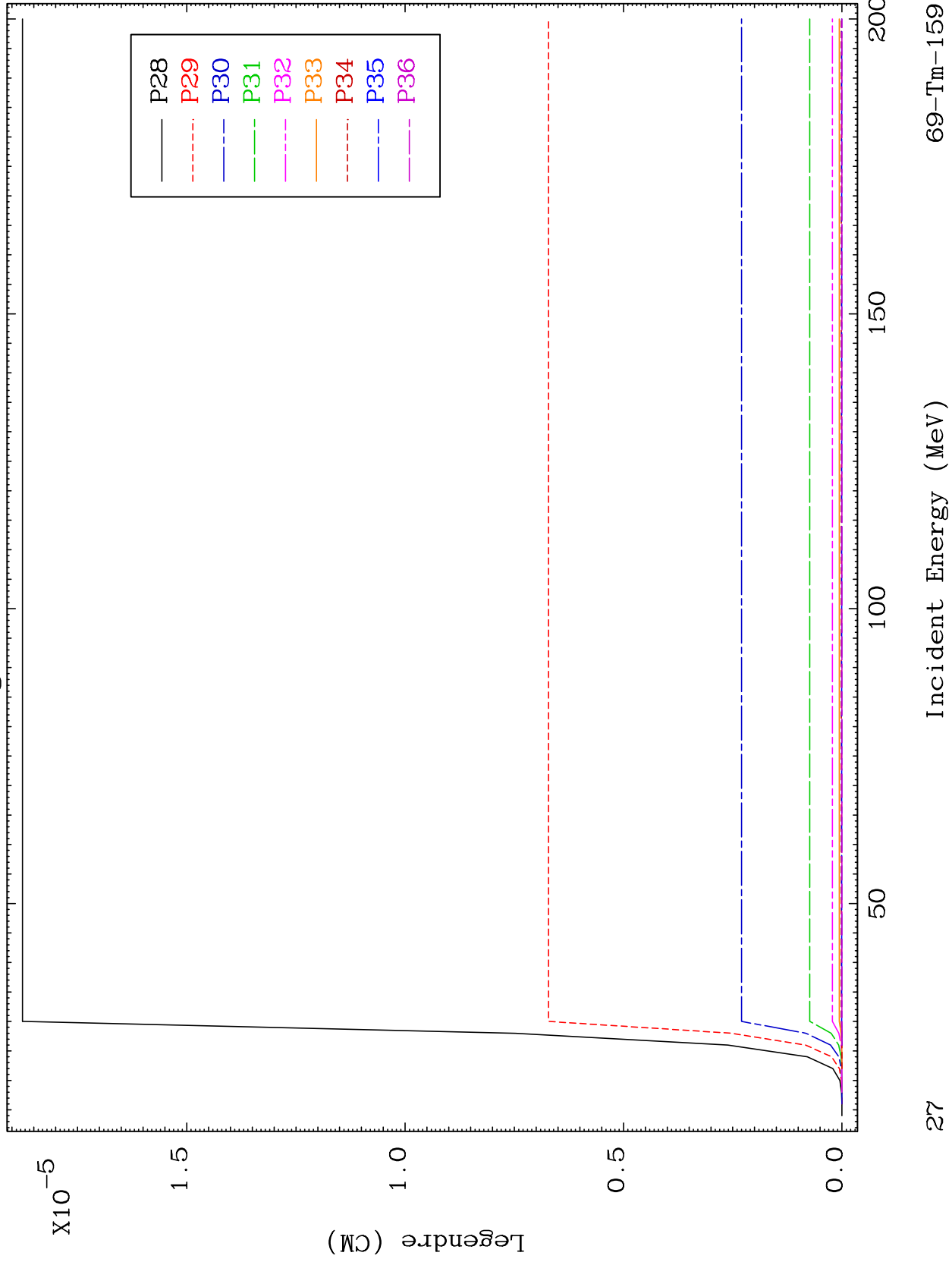
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 52 (n,n') Level
Legendre Coefficients

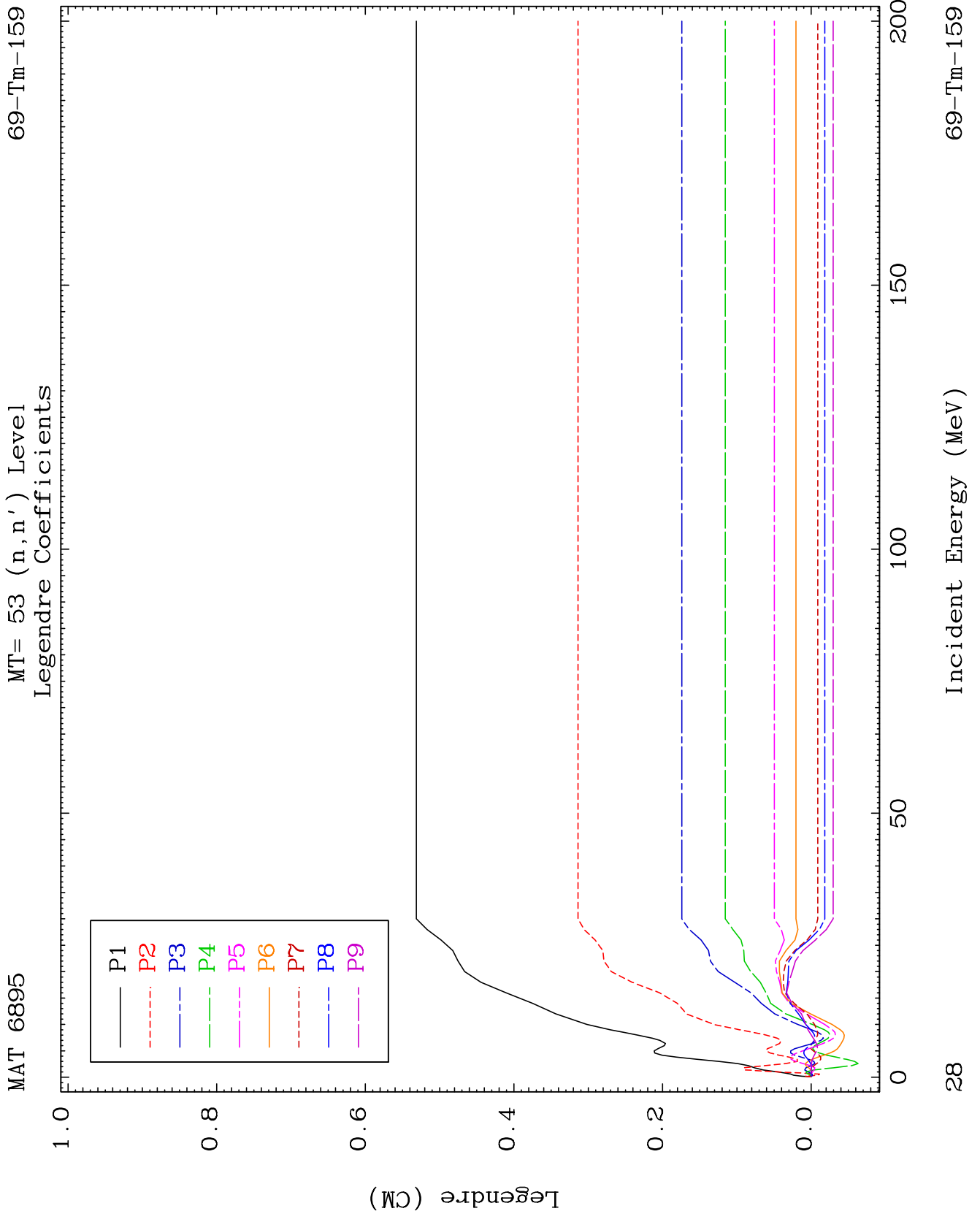
69-Tm-159



27

Incident Energy (MeV)

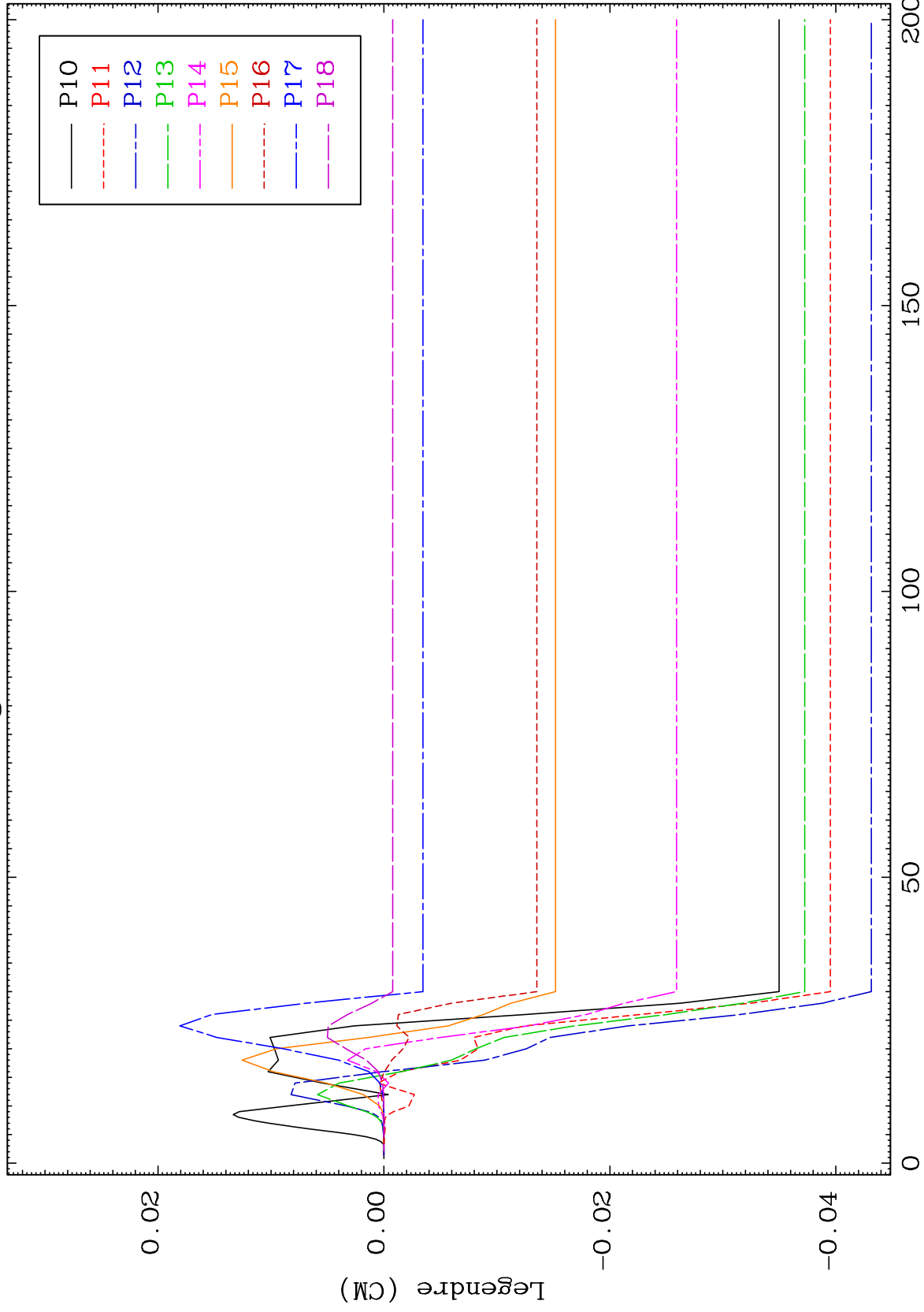
69-Tm-159



MAT 6895

MT= 53 (n,n') Level
Legendre Coefficients

69-Tm-159



29

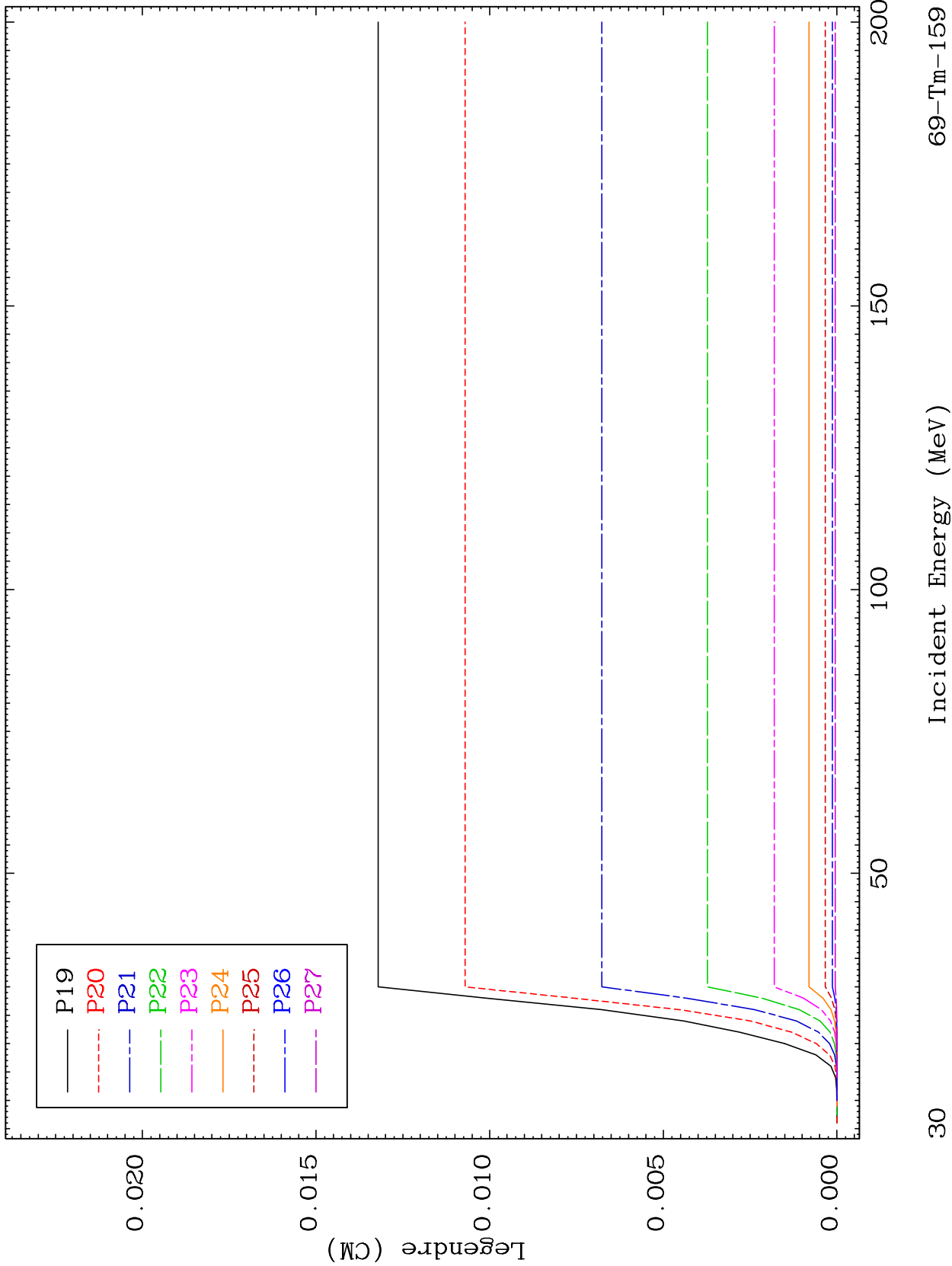
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 53 (n,n') Level
Legendre Coefficients

69-Tm-159



30

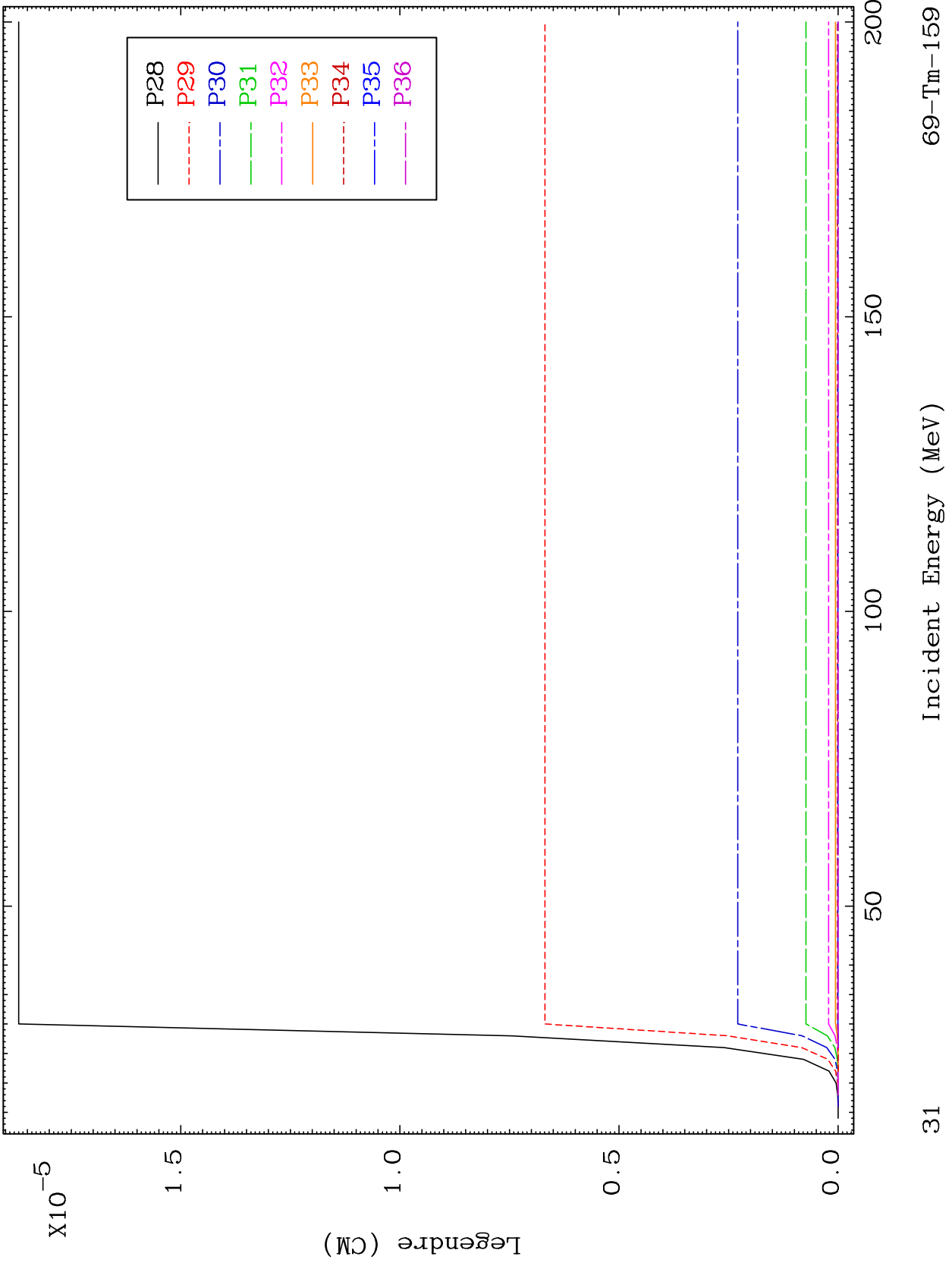
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 53 (n,n') Level
Legendre Coefficients

69-Tm-159



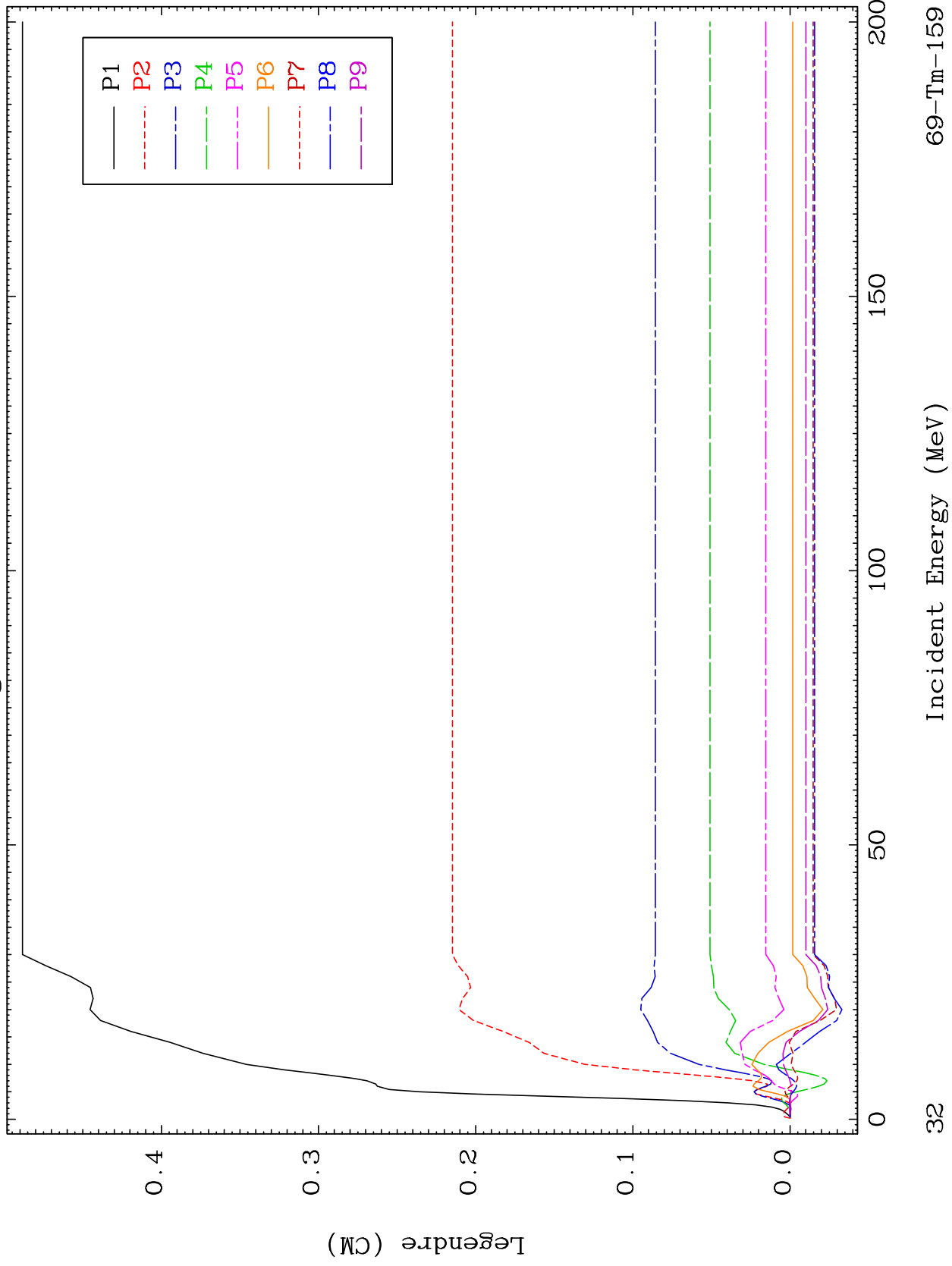
31

69-Tm-159

MAT 6895

MT= 54 (n,n') Level
Legendre Coefficients

69-Tm-159



69-Tm-159

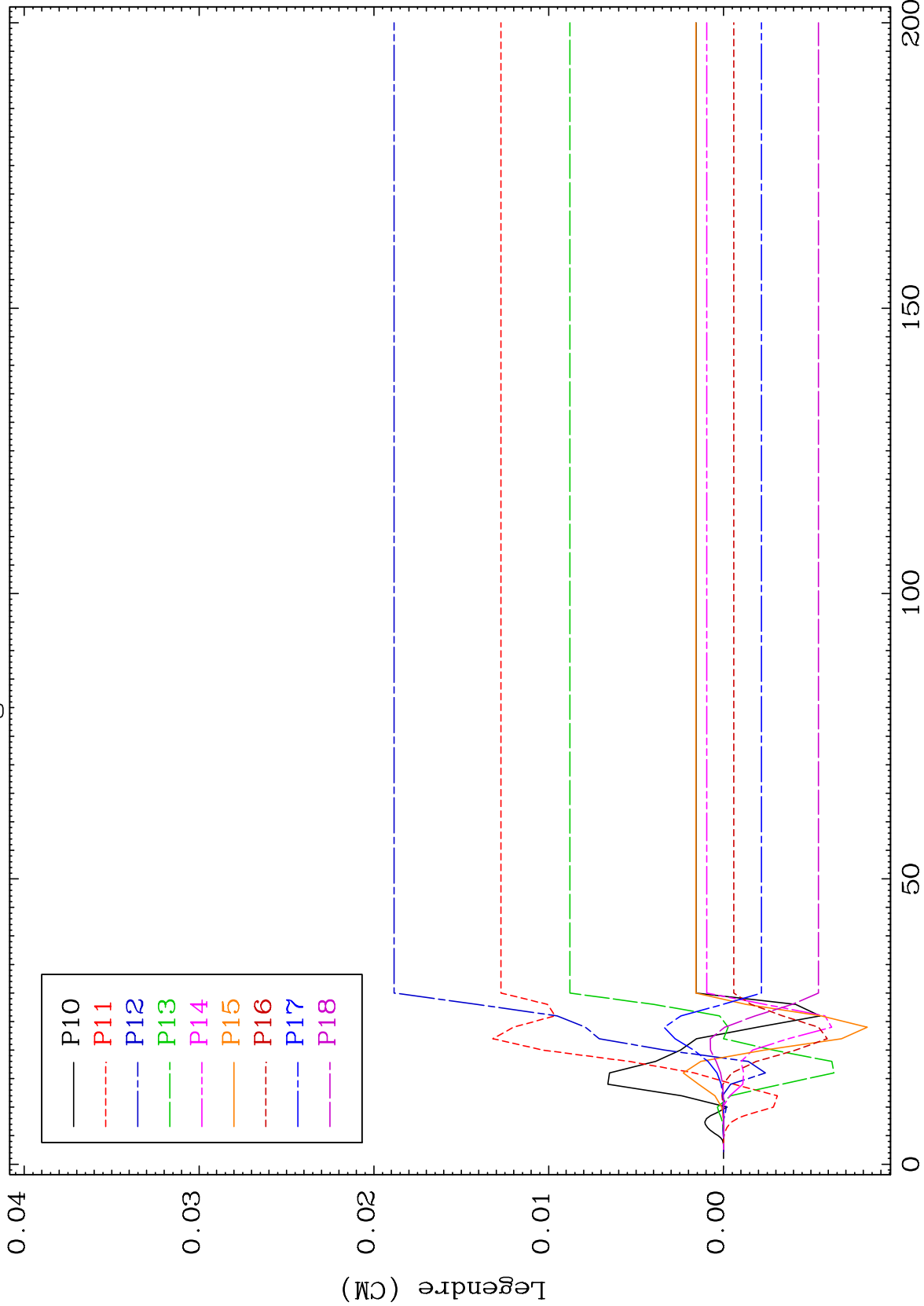
Incident Energy (MeV)

32

MAT 6895

MT= 54 (n,n') Level
Legendre Coefficients

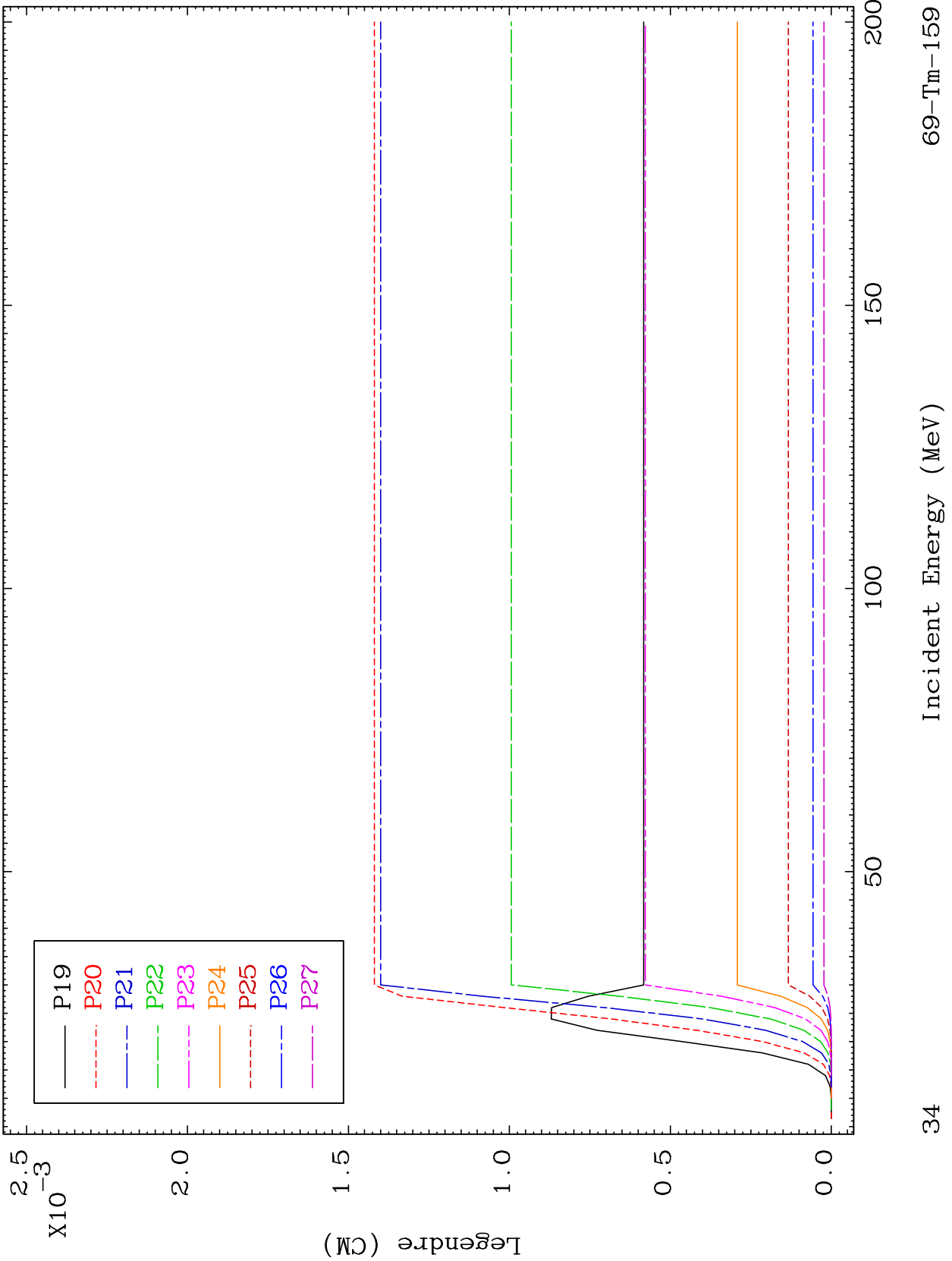
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MAT 6895

MT= 54 (n,n') Level
Legendre Coefficients

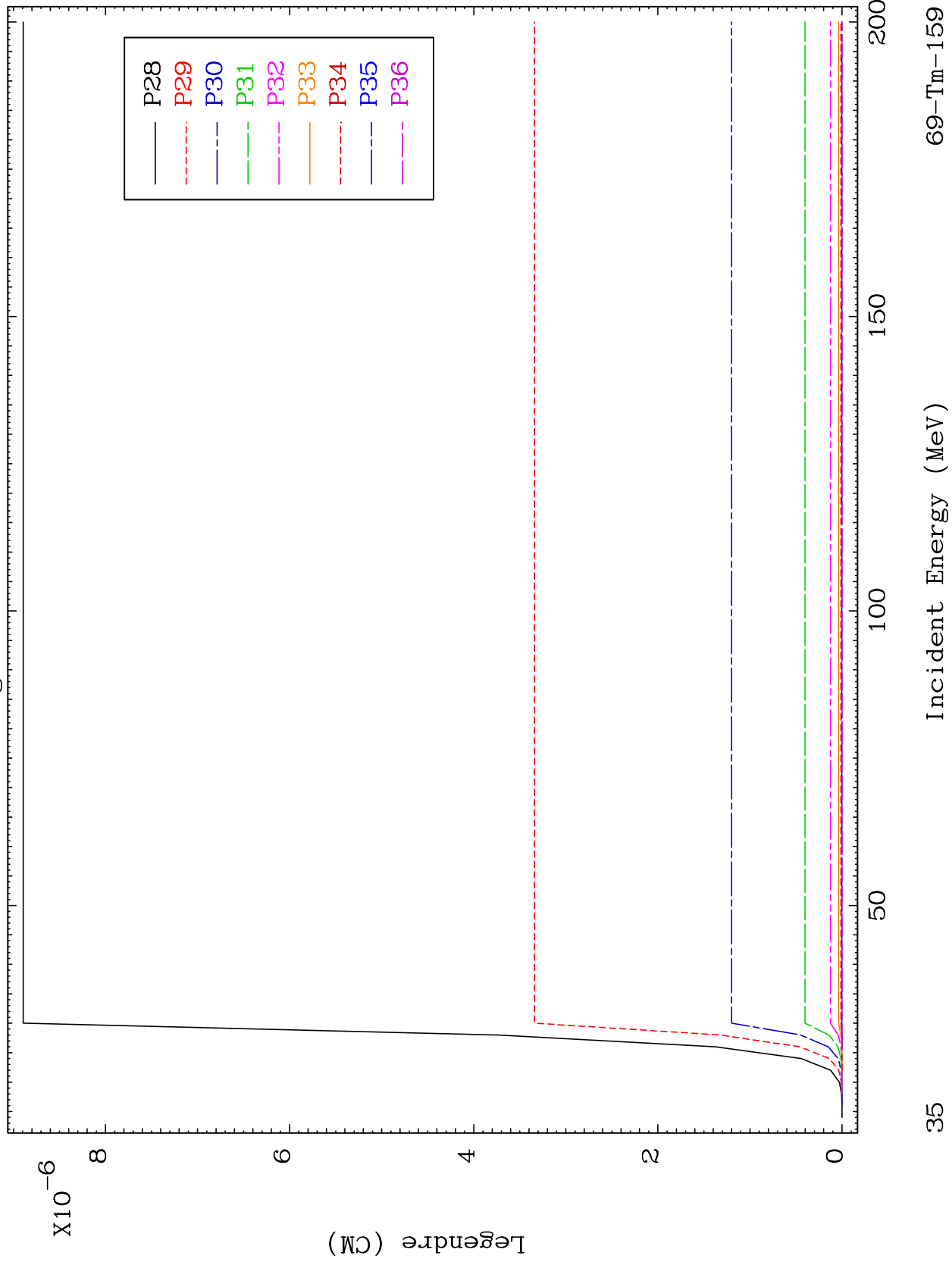
69-Tm-159



MAT 6895

MT= 54 (n,n') Level
Legendre Coefficients

69-Tm-159



35

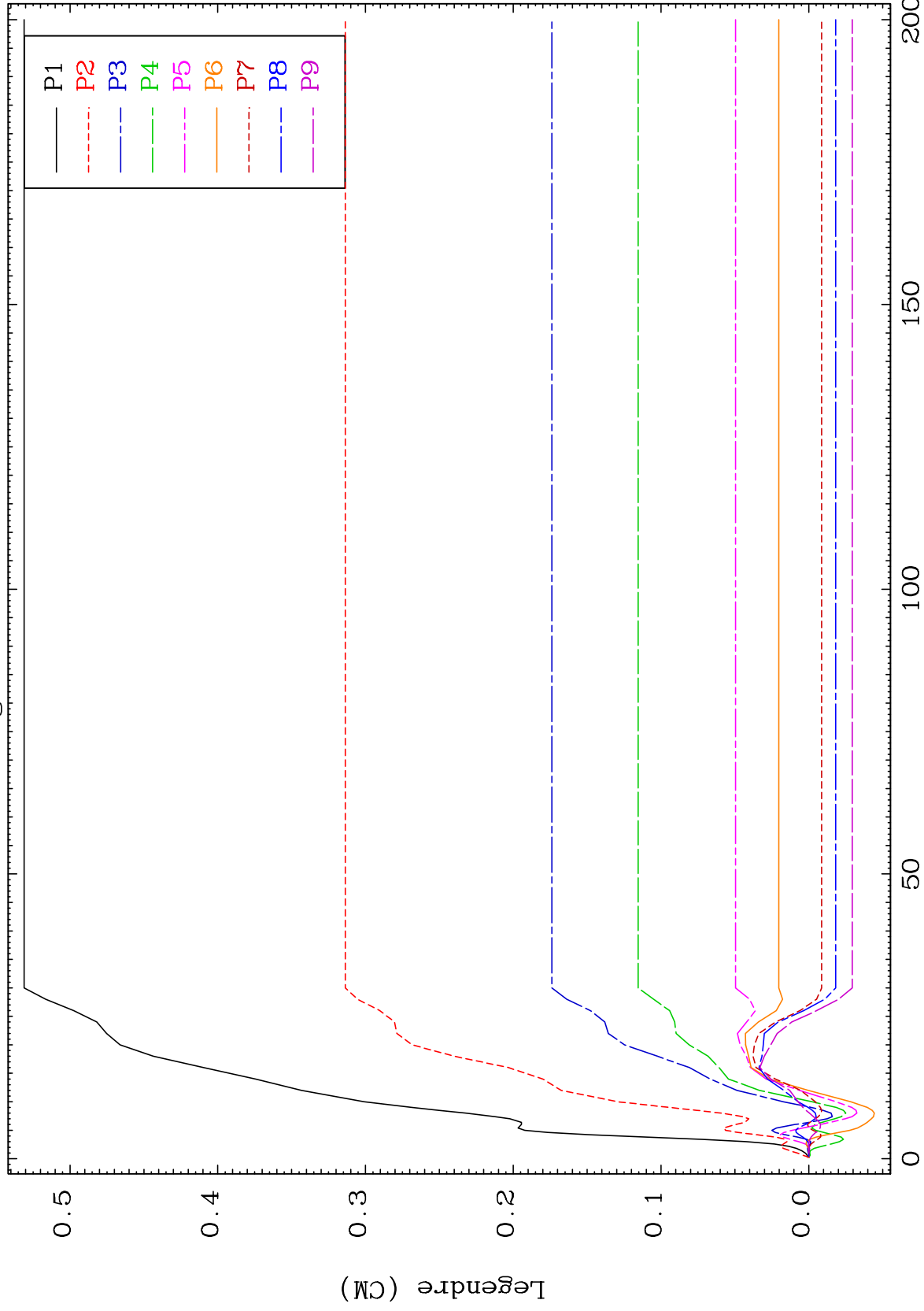
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 55 (n,n') Level
Legendre Coefficients

69-Tm-159



36

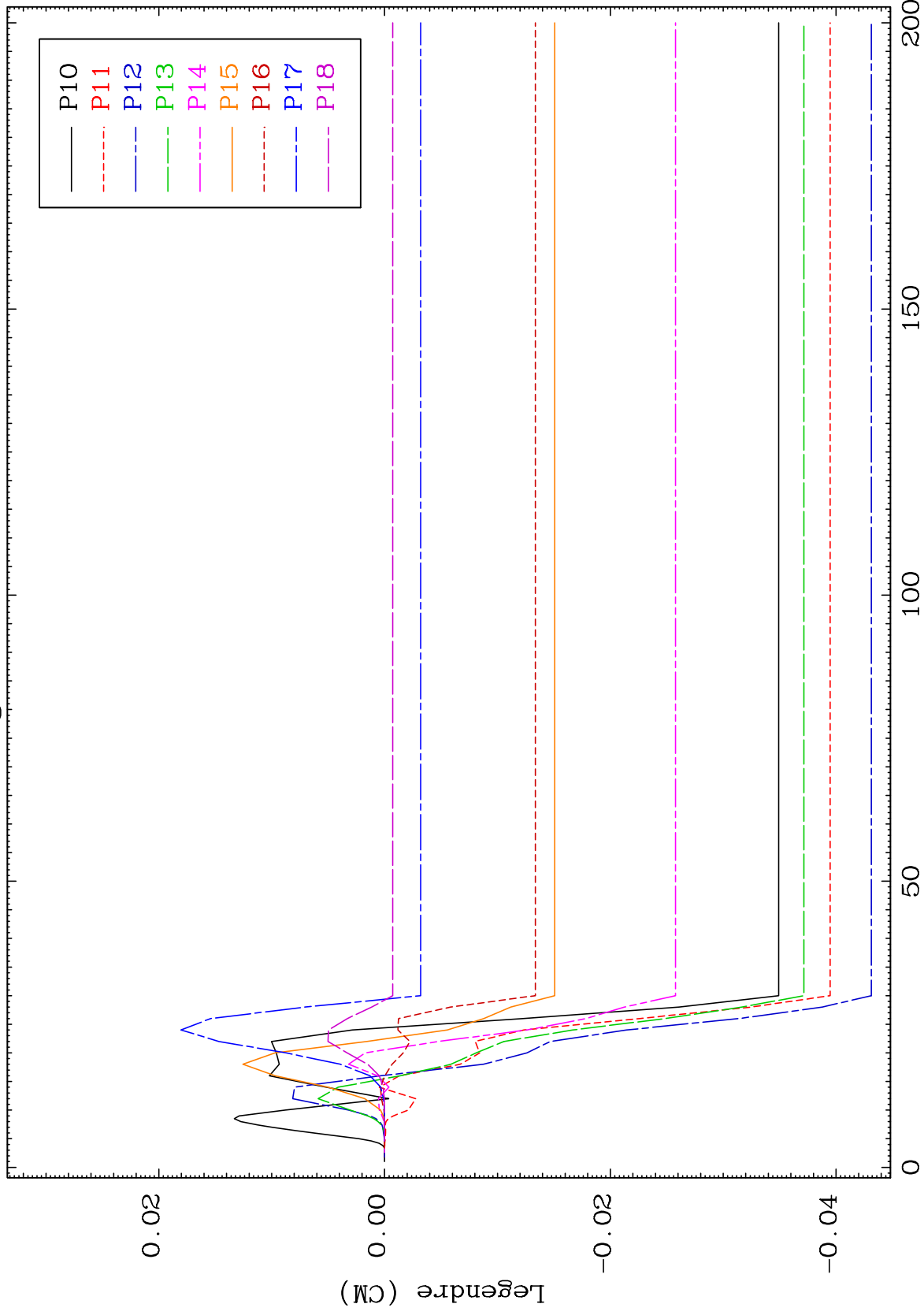
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 55 (n,n') Level
Legendre Coefficients

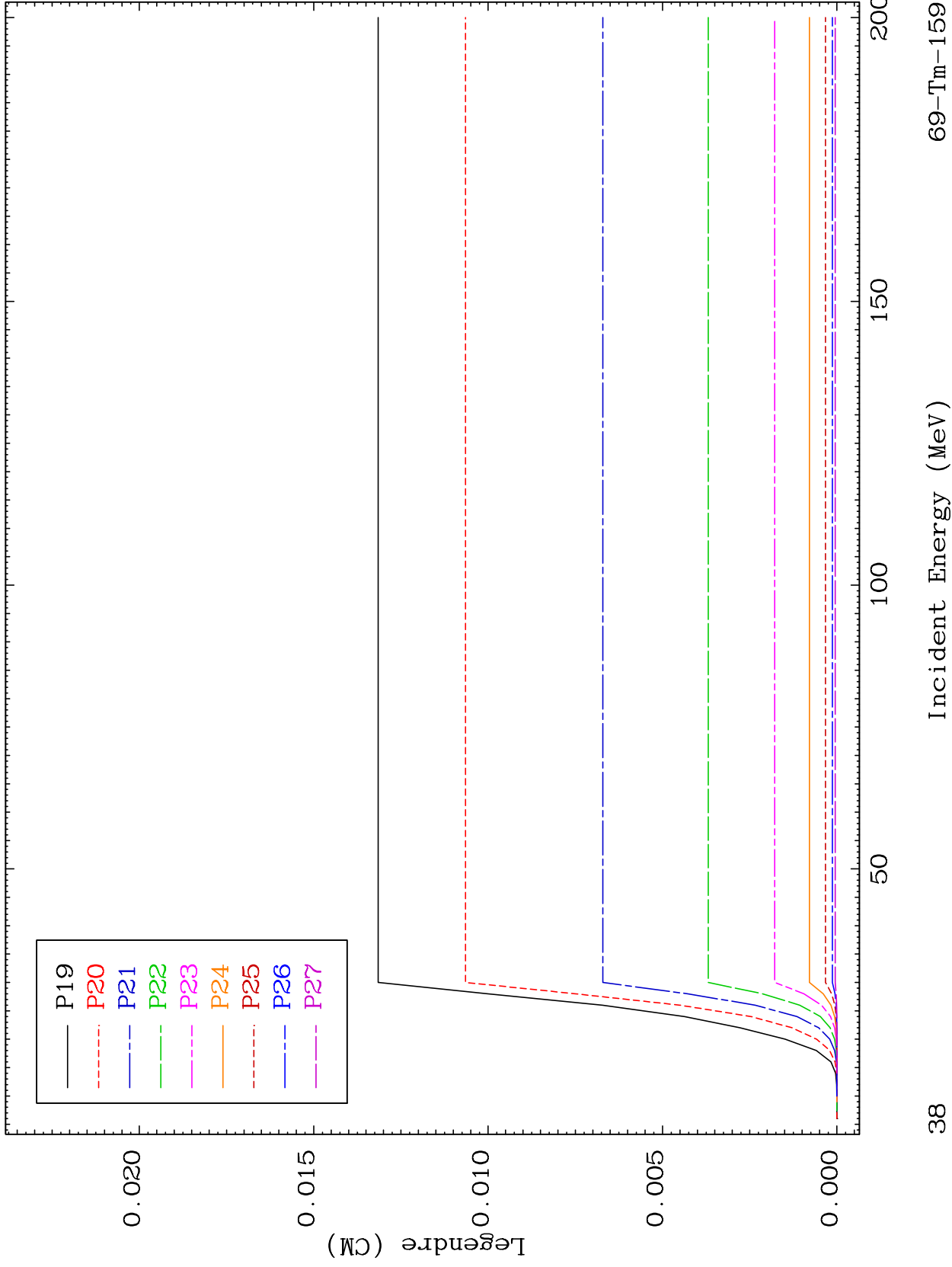
69-Tm-159



37

Incident Energy (MeV)

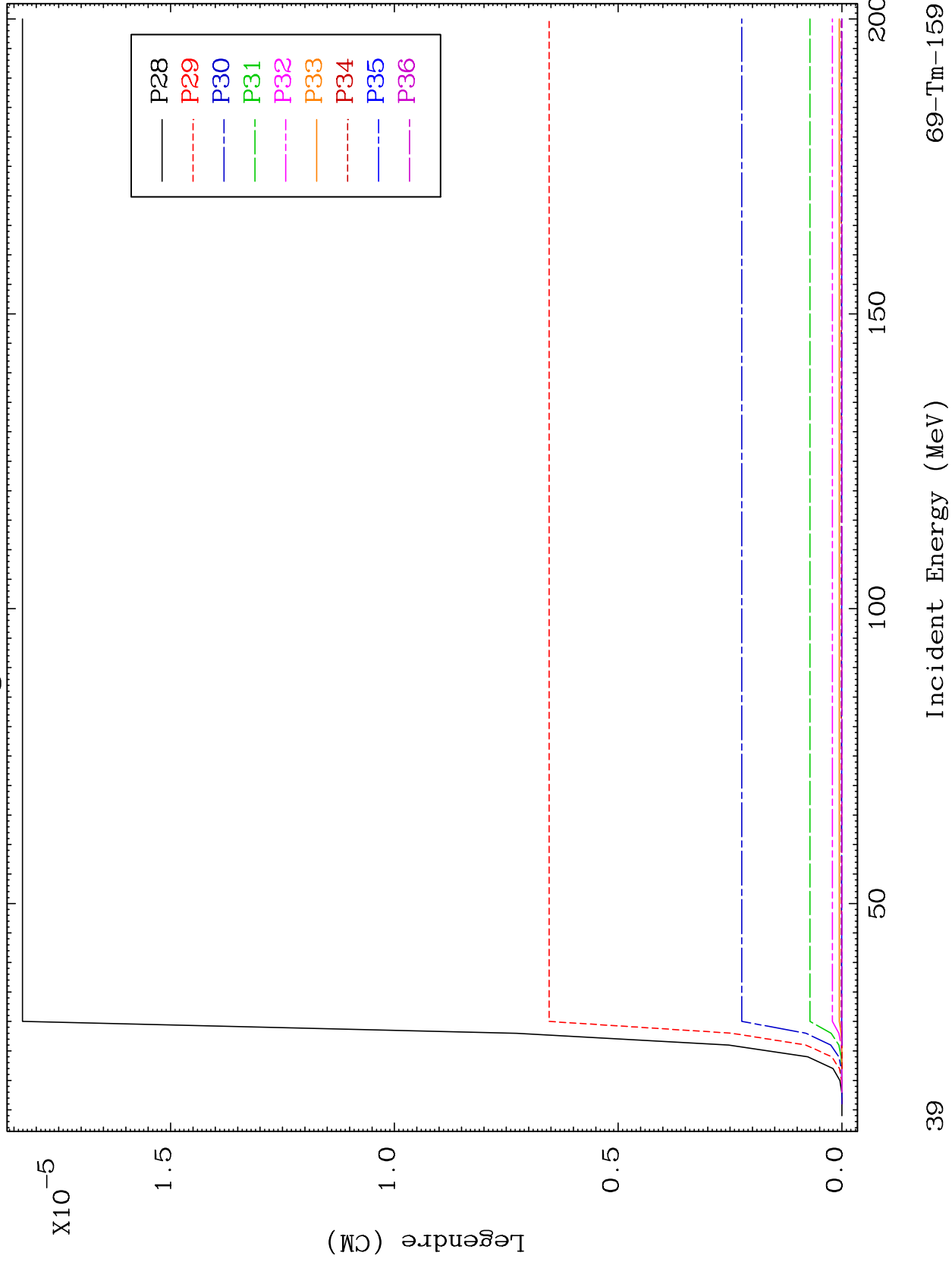
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MAT 6895

MT= 55 (n,n') Level
Legendre Coefficients

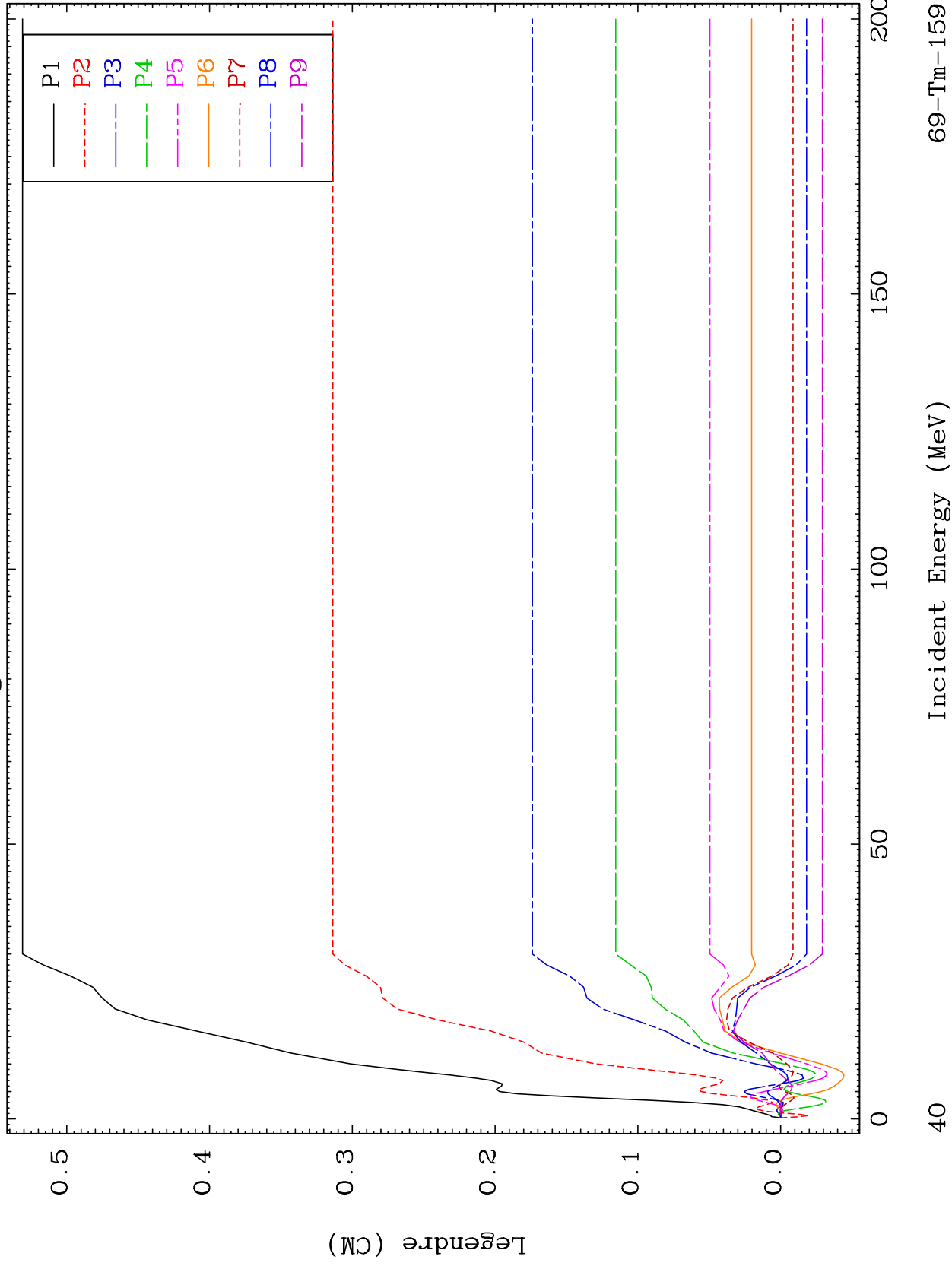
69-Tm-159



MAT 6895

MT= 56 (n,n') Level
Legendre Coefficients

69-Tm-159



69-Tm-159

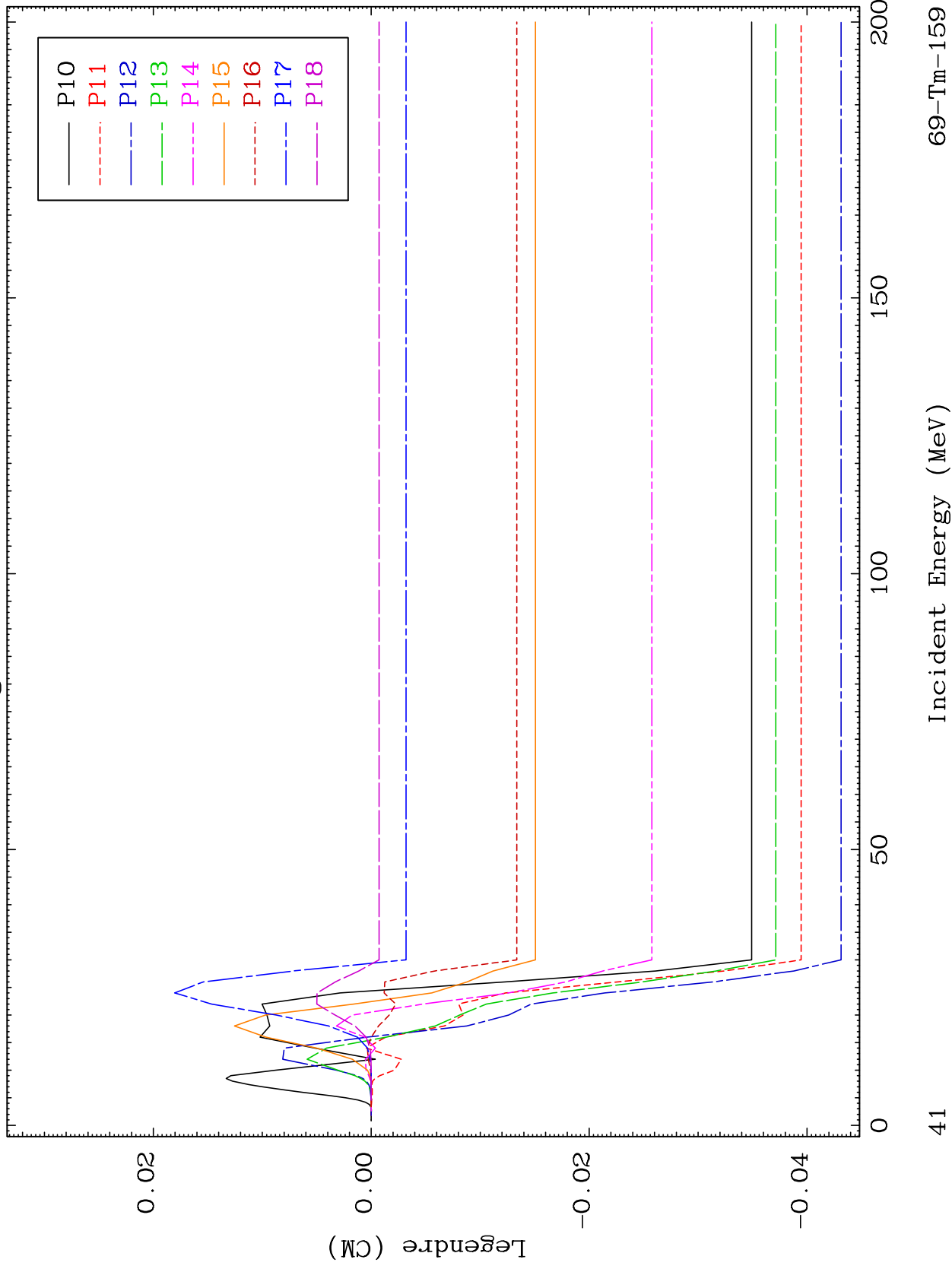
Incident Energy (MeV)

40

MAT 6895

MT= 56 (n,n') Level
Legendre Coefficients

69-Tm-159



41

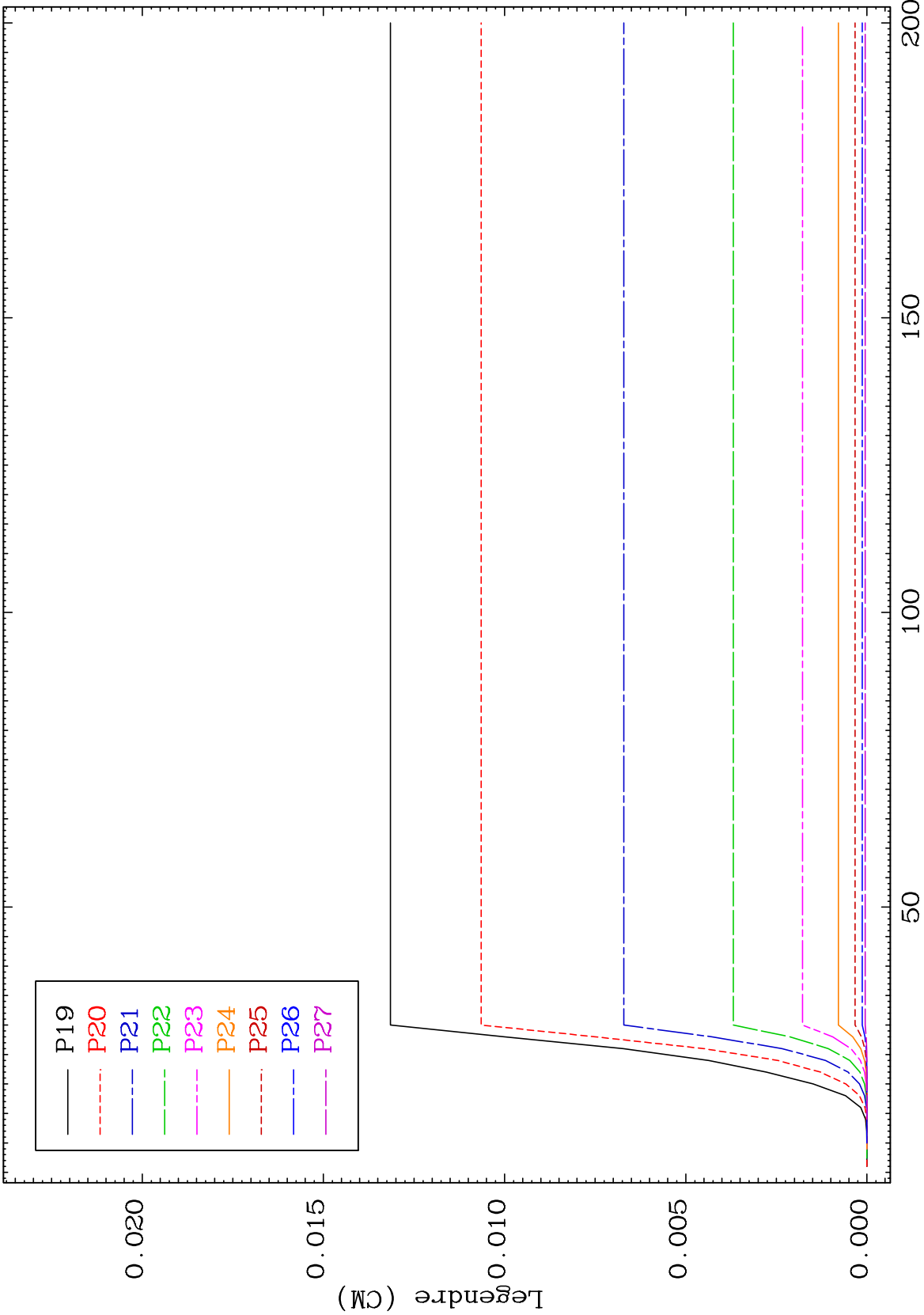
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 56 (n,n') Level
Legendre Coefficients

69-Tm-159



42

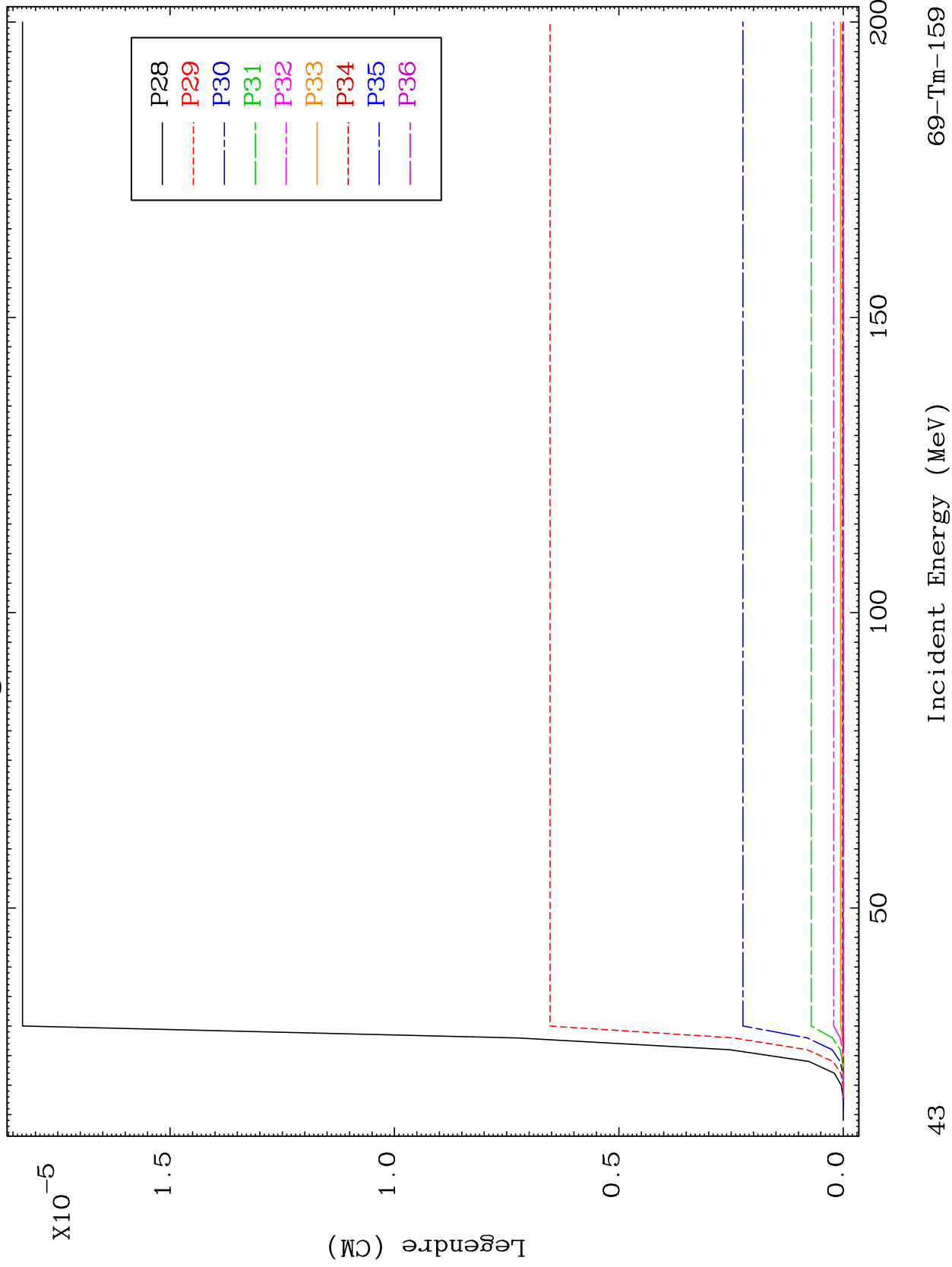
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 56 (n,n') Level
Legendre Coefficients

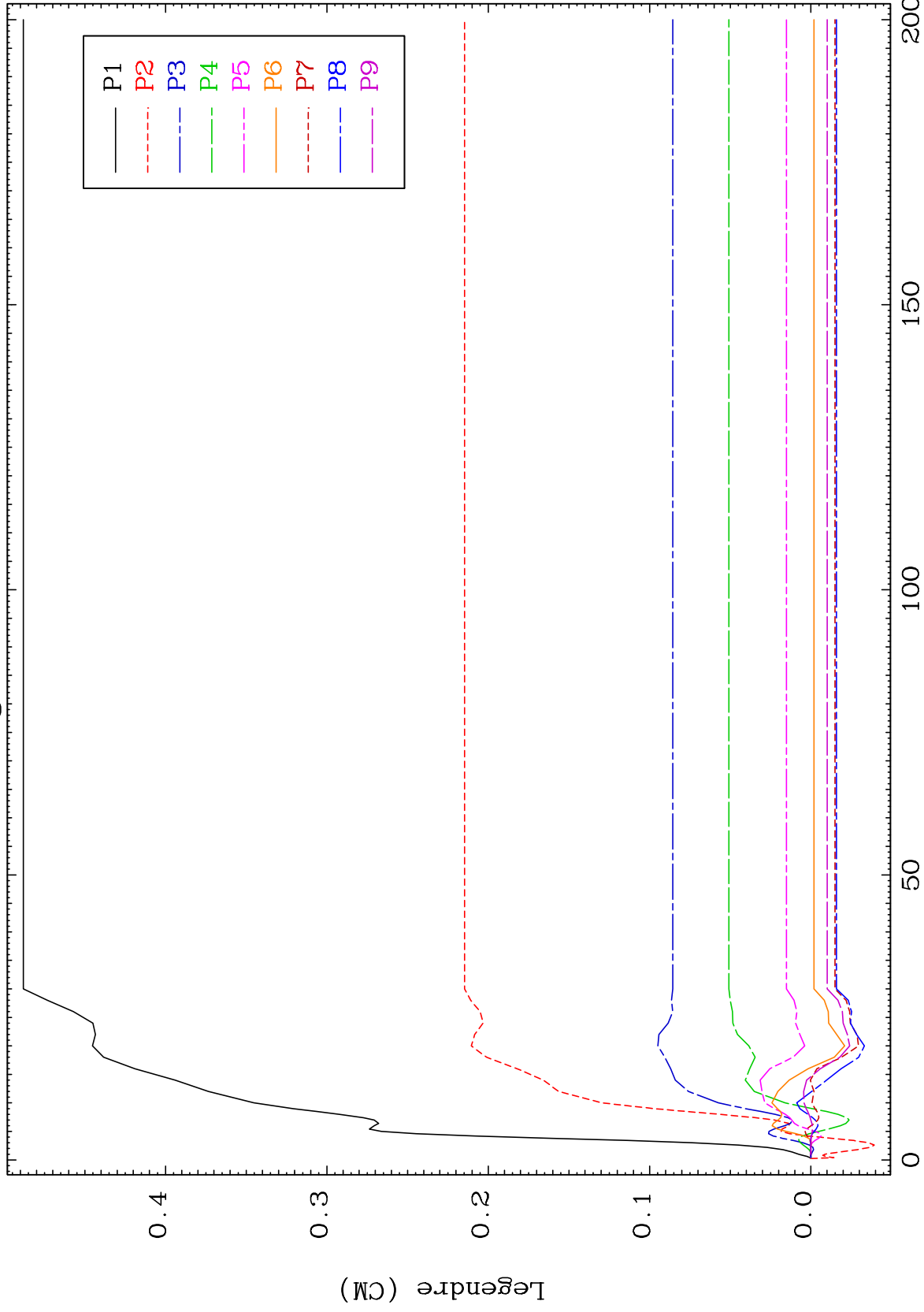
69-Tm-159



MAT 6895

MT= 57 (n,n') Level
Legendre Coefficients

69-Tm-159



44

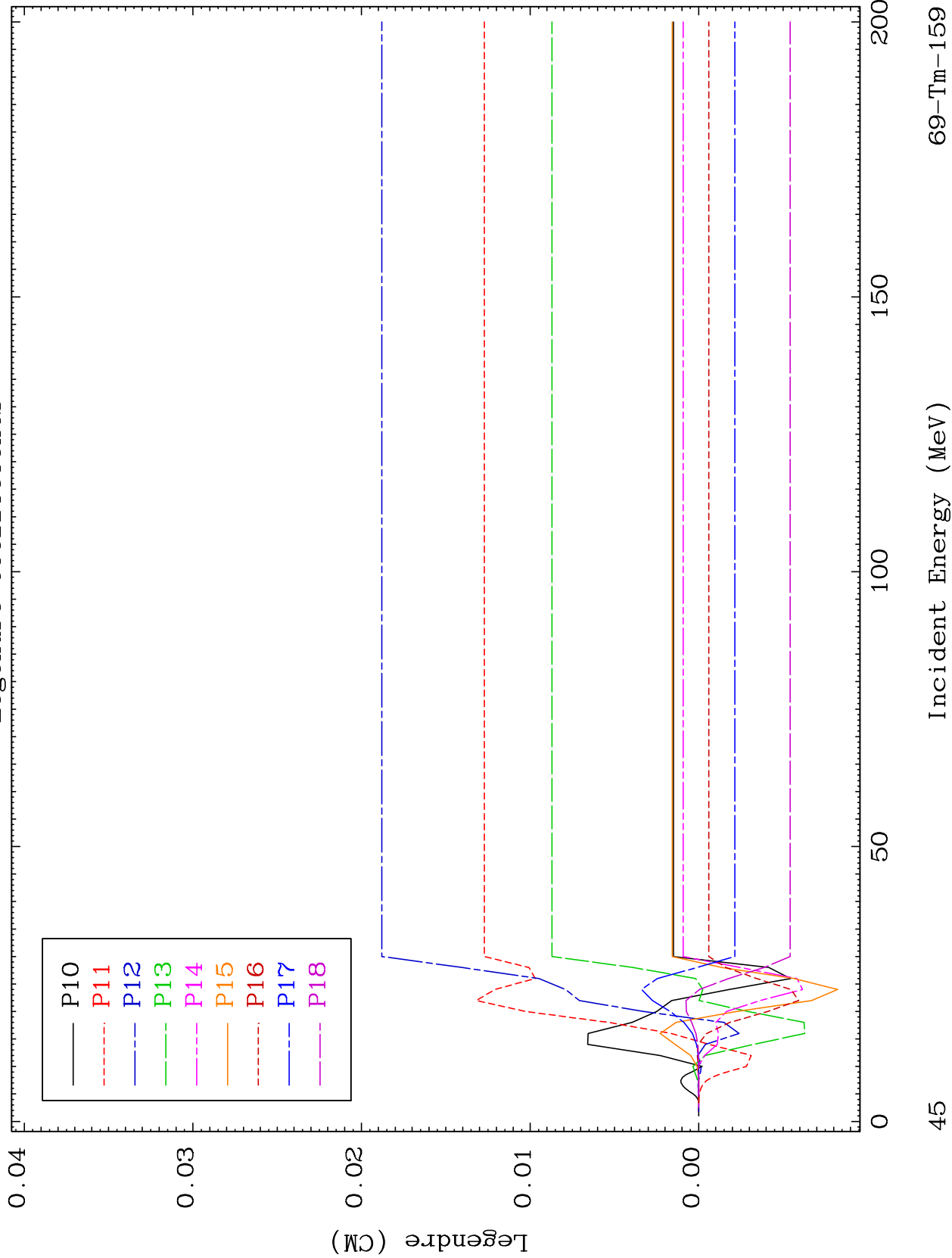
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 57 (n,n') Level
Legendre Coefficients

69-Tm-159



69-Tm-159

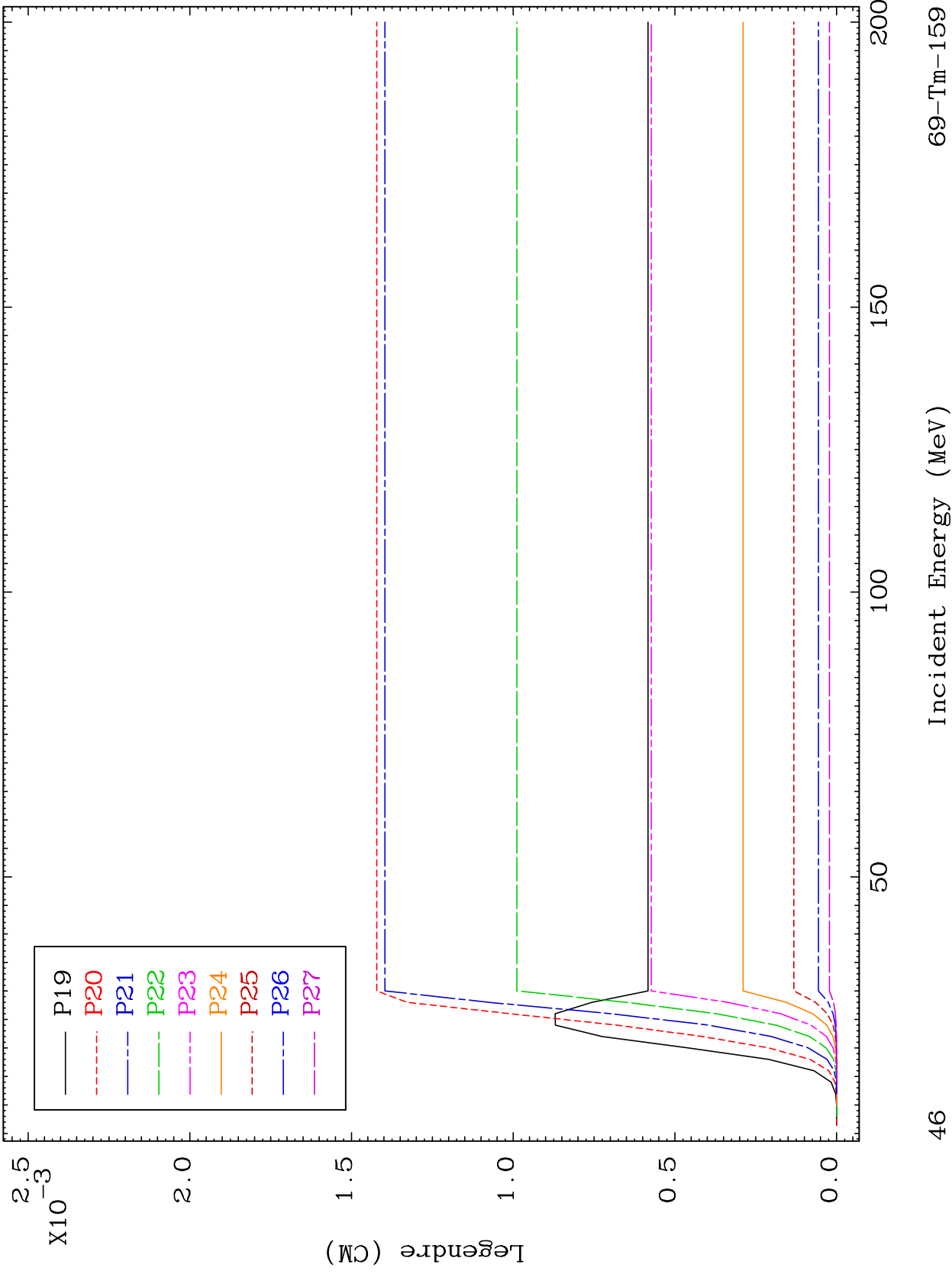
Incident Energy (MeV)

45

MAT 6895

MT= 57 (n,n') Level
Legendre Coefficients

69-Tm-159



46

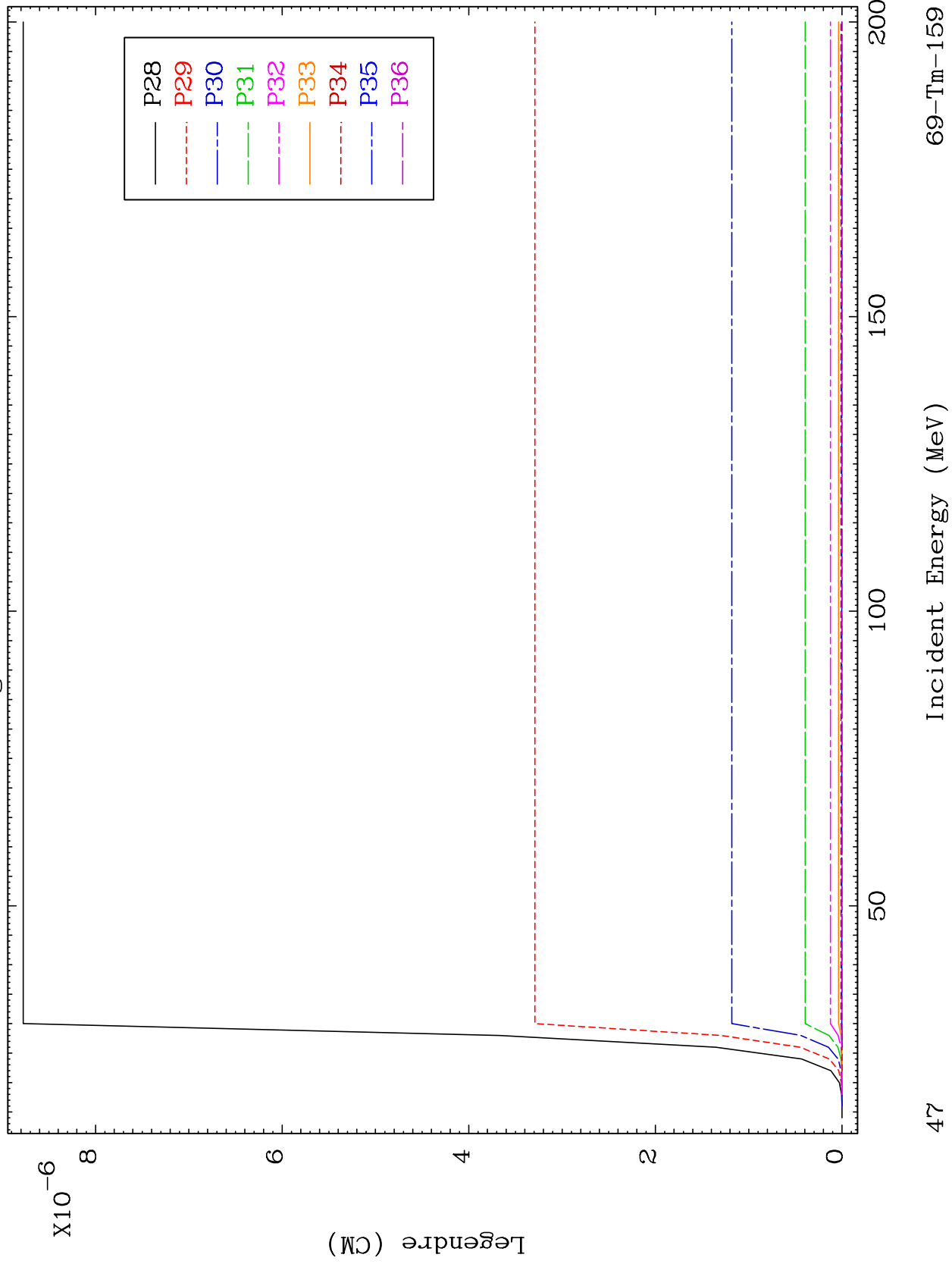
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 57 (n,n') Level
Legendre Coefficients

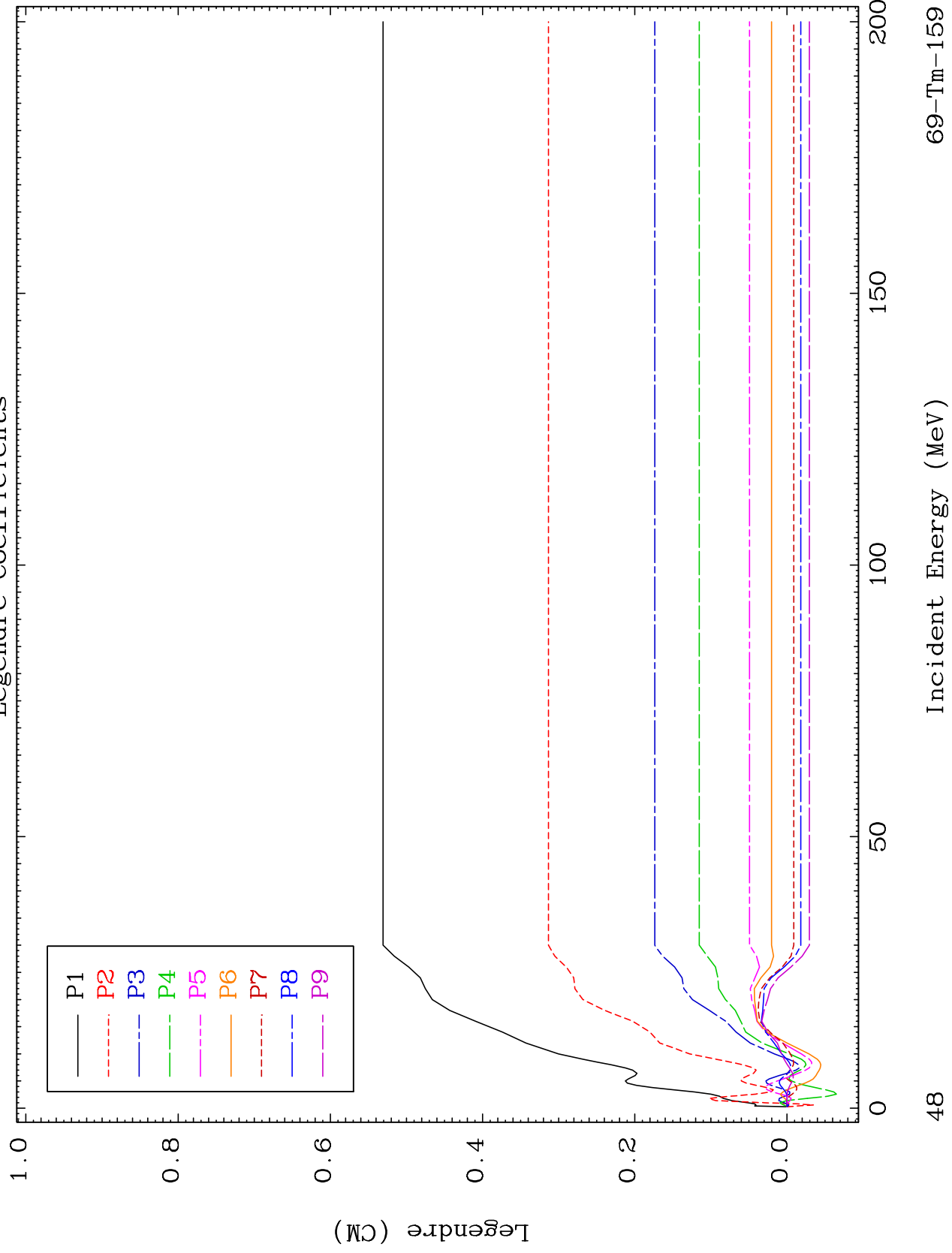
69-Tm-159



MAT 6895

MT= 58 (n,n') Level
Legendre Coefficients

69-Tm-159



69-Tm-159

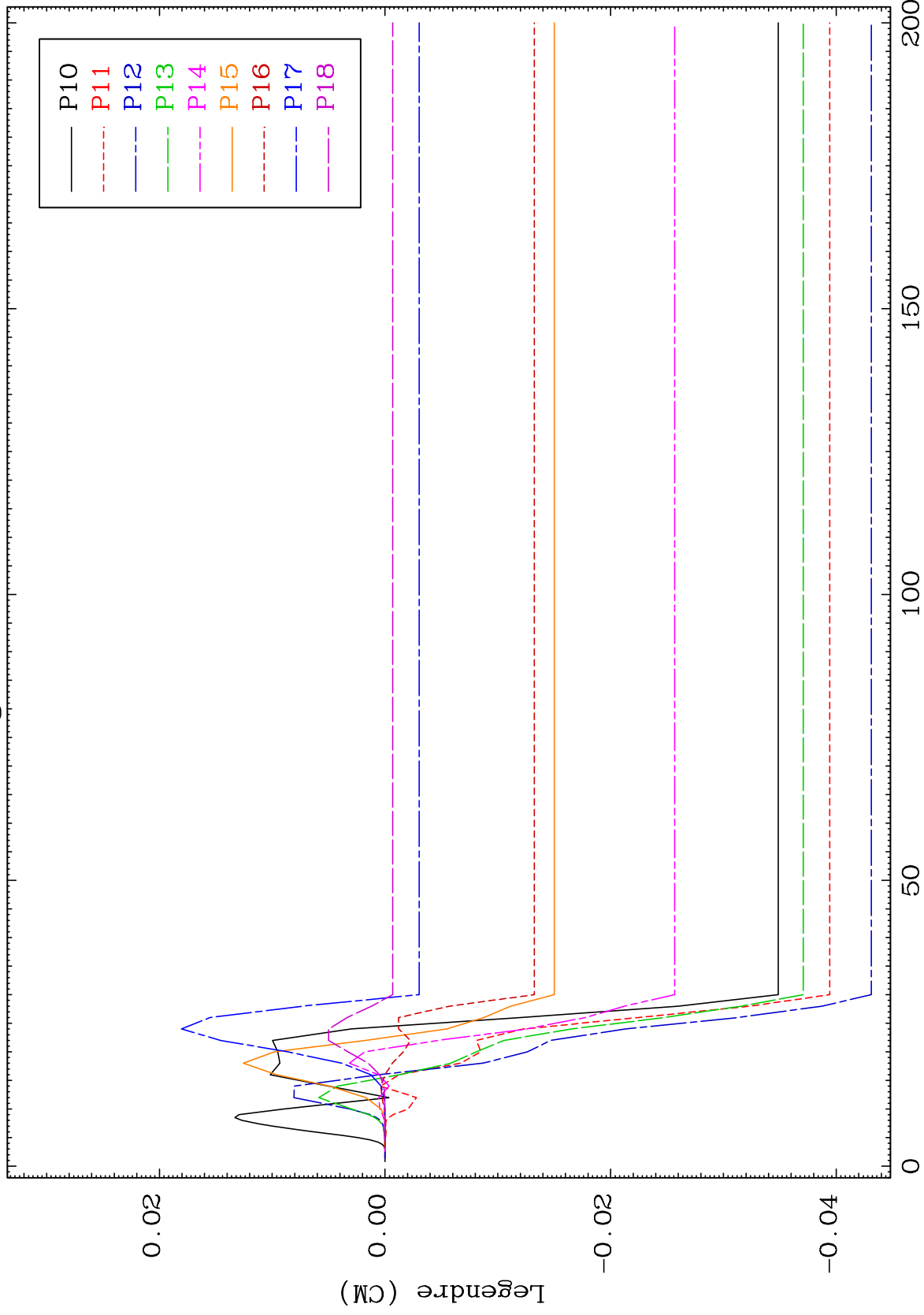
Incident Energy (MeV)

48

MAT 6895

MT= 58 (n,n') Level
Legendre Coefficients

69-Tm-159



49

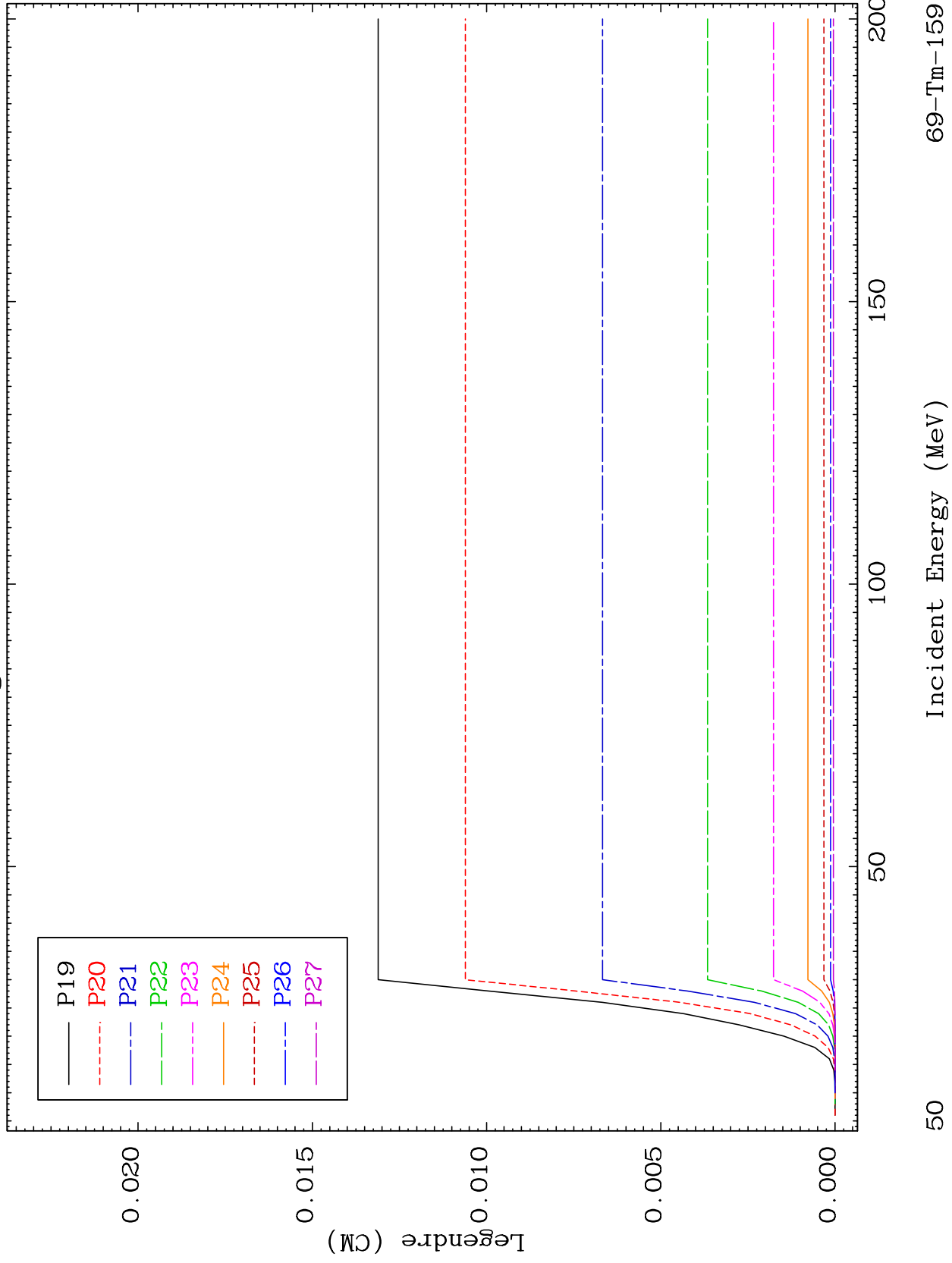
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 58 (n,n') Level
Legendre Coefficients

69-Tm-159



69-Tm-159

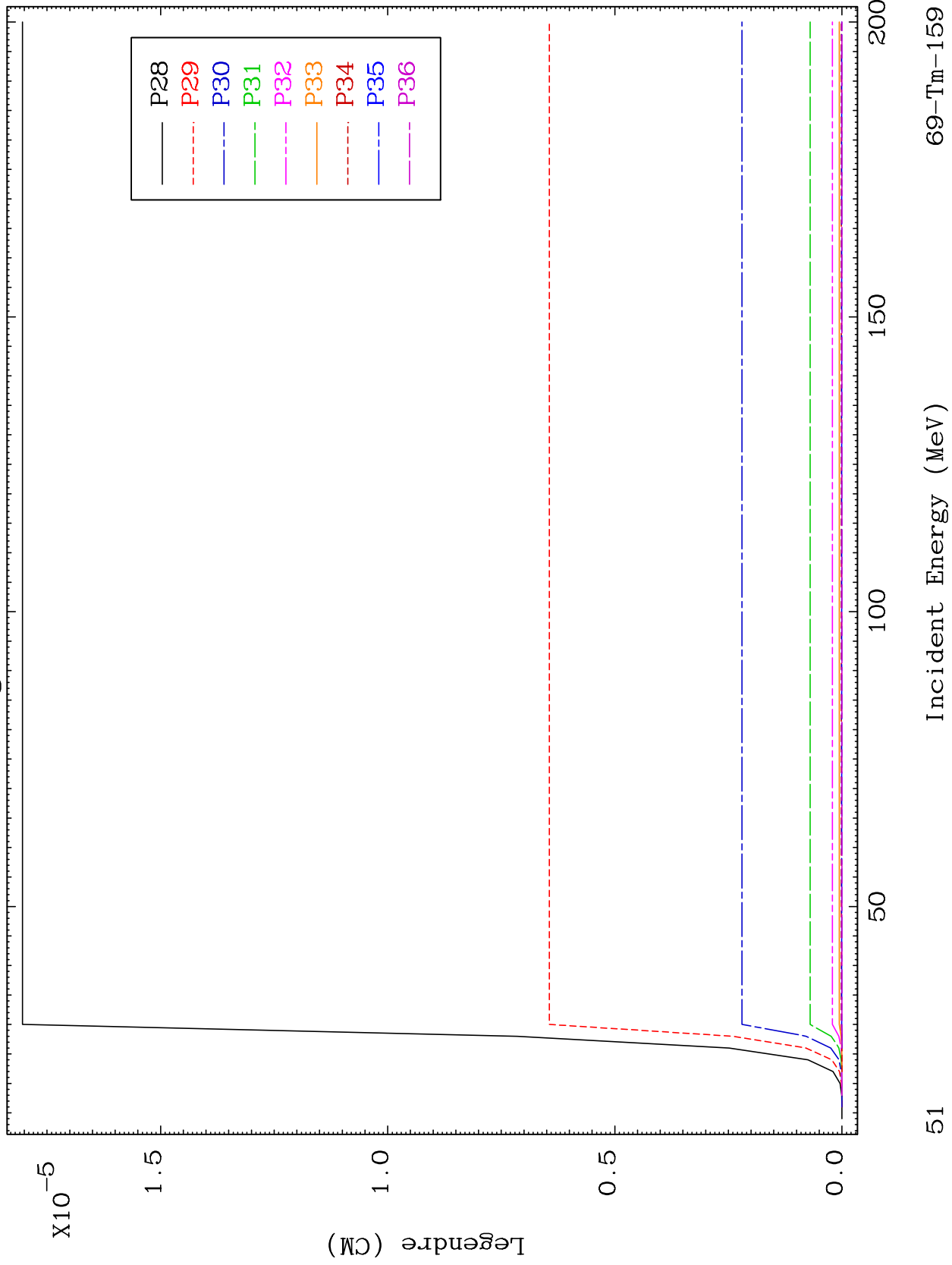
Incident Energy (MeV)

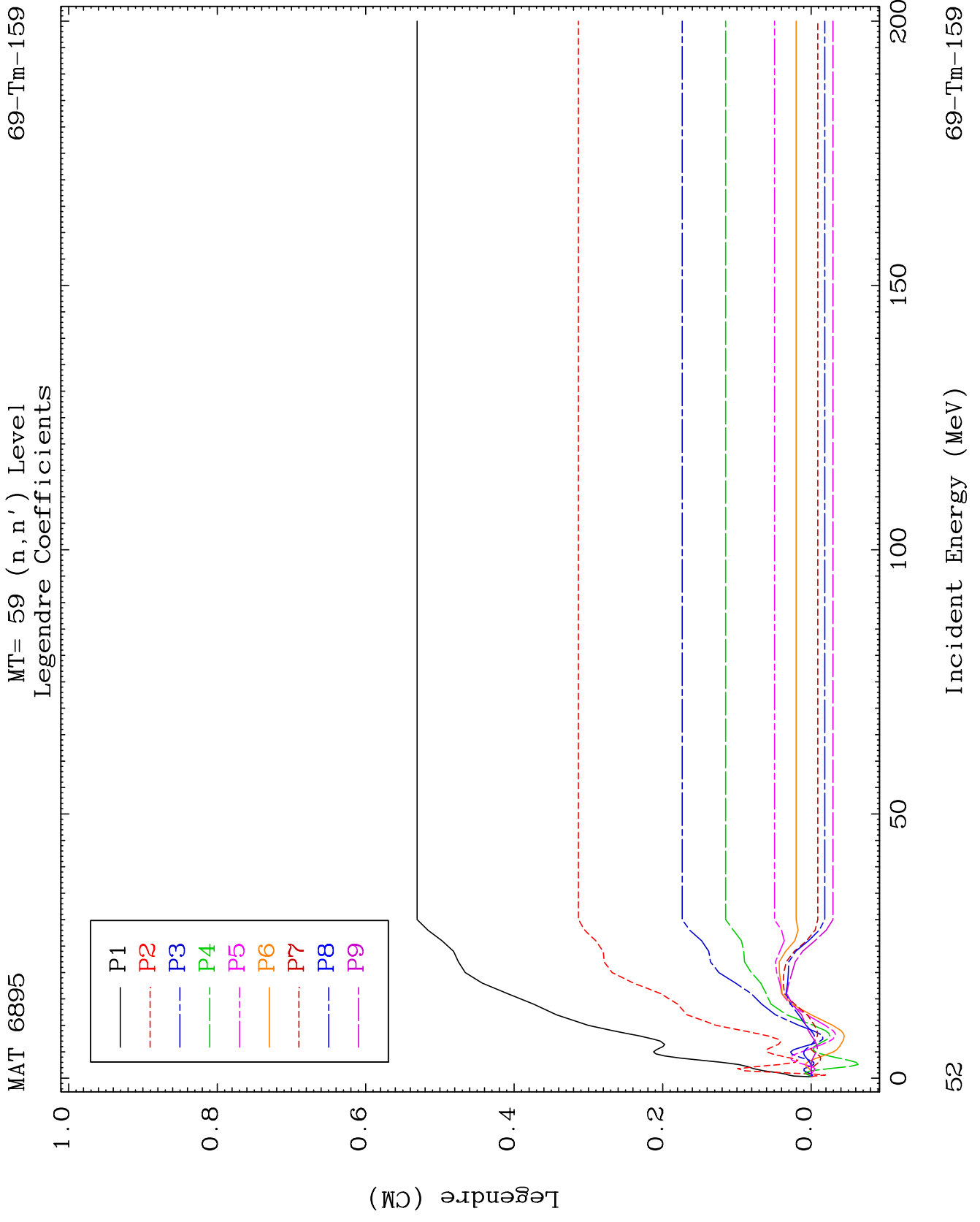
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MAT 6895

MT= 58 (n,n') Level
Legendre Coefficients

69-Tm-159

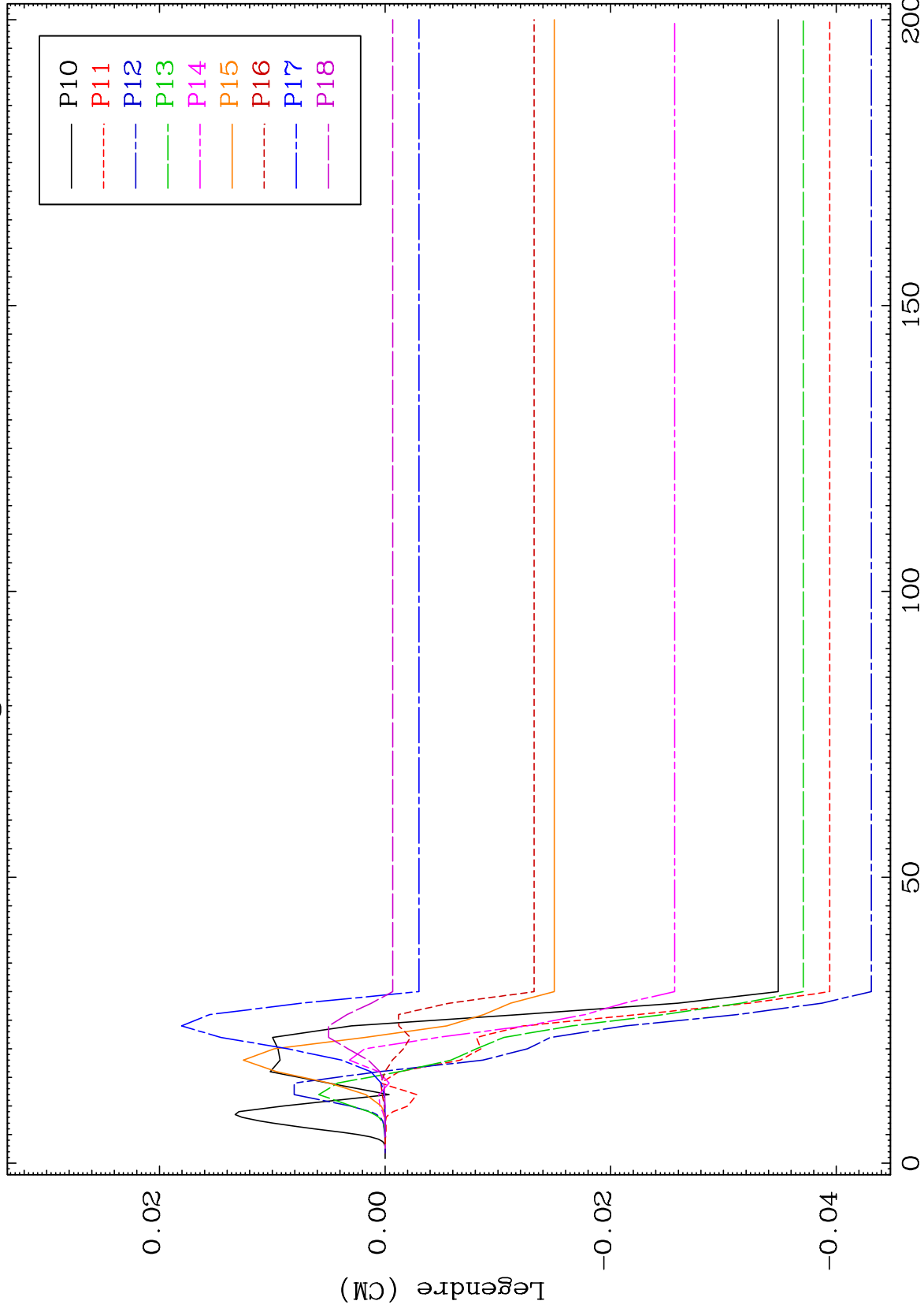




MAT 6895

MT= 59 (n,n') Level
Legendre Coefficients

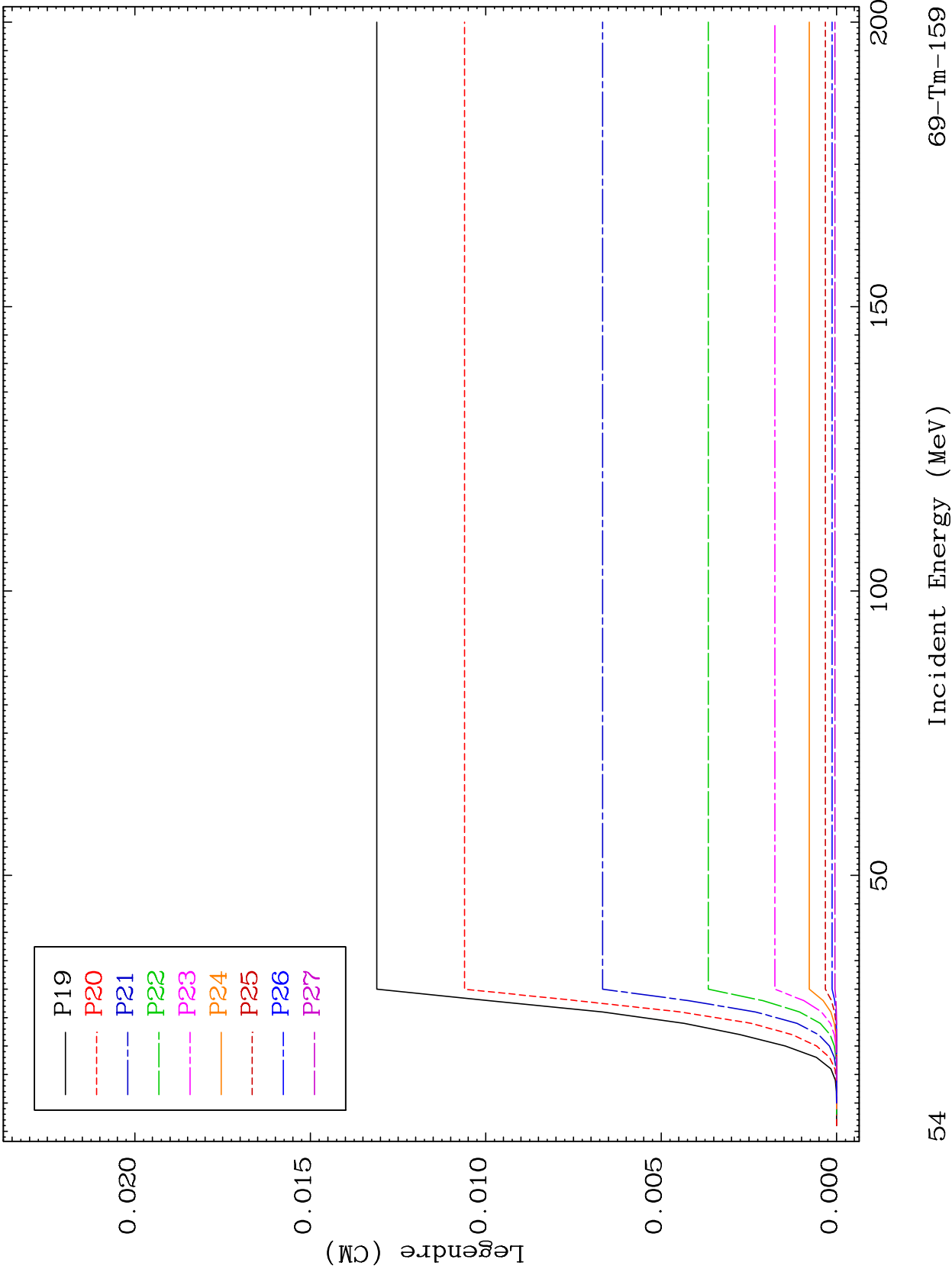
69-Tm-159



53

Incident Energy (MeV)

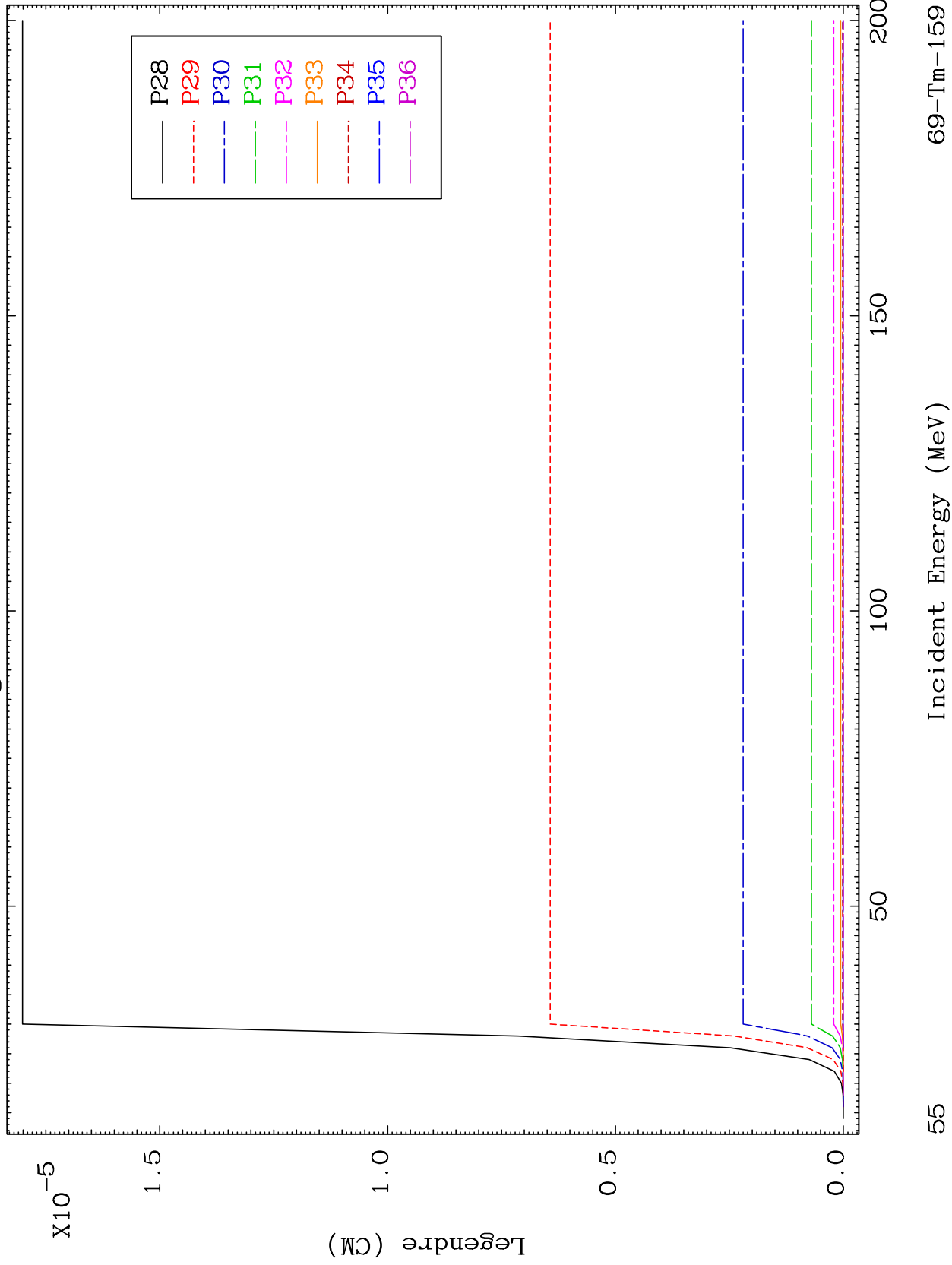
69-Tm-159

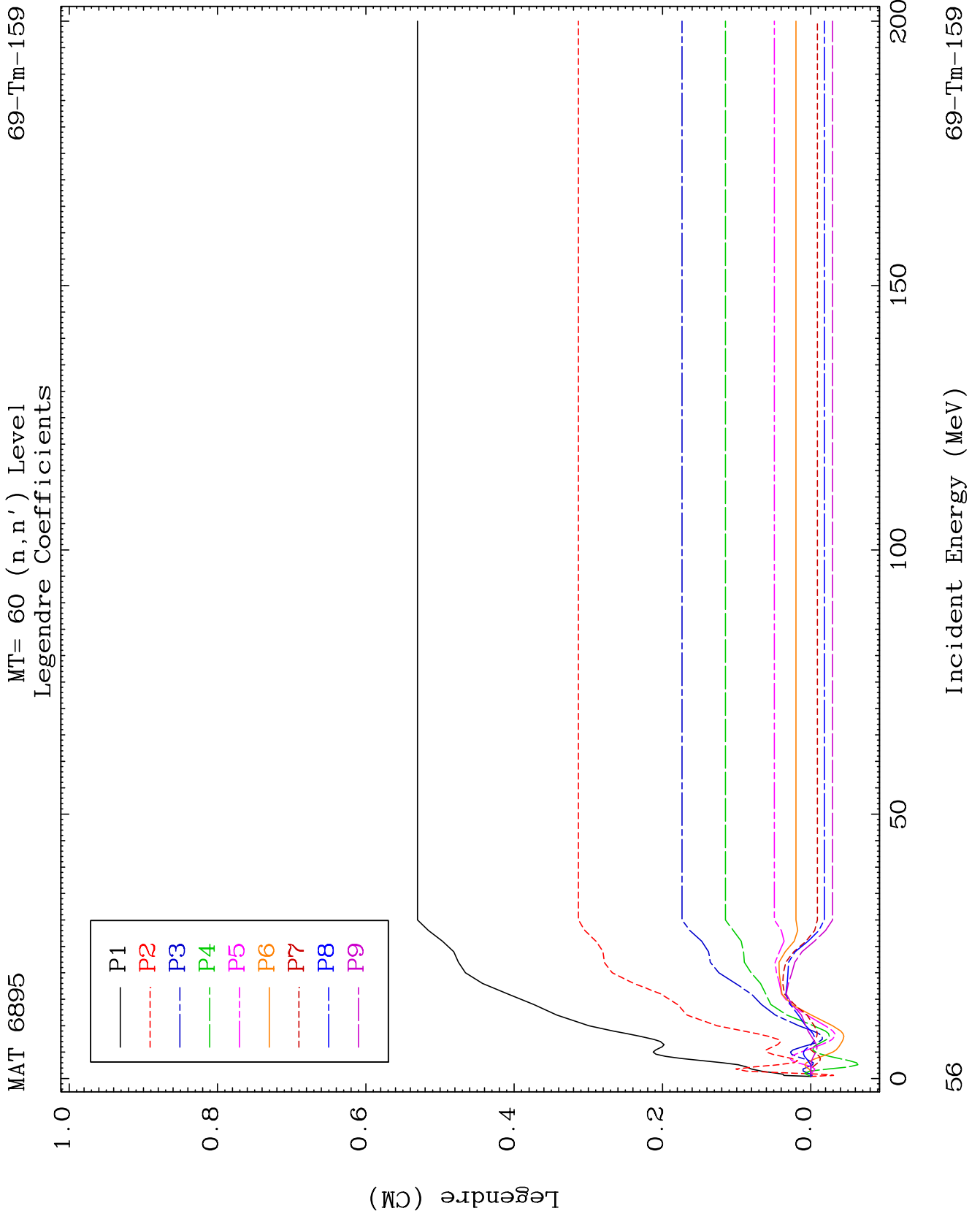


MAT 6895

MT= 59 (n,n') Level
Legendre Coefficients

69-Tm-159

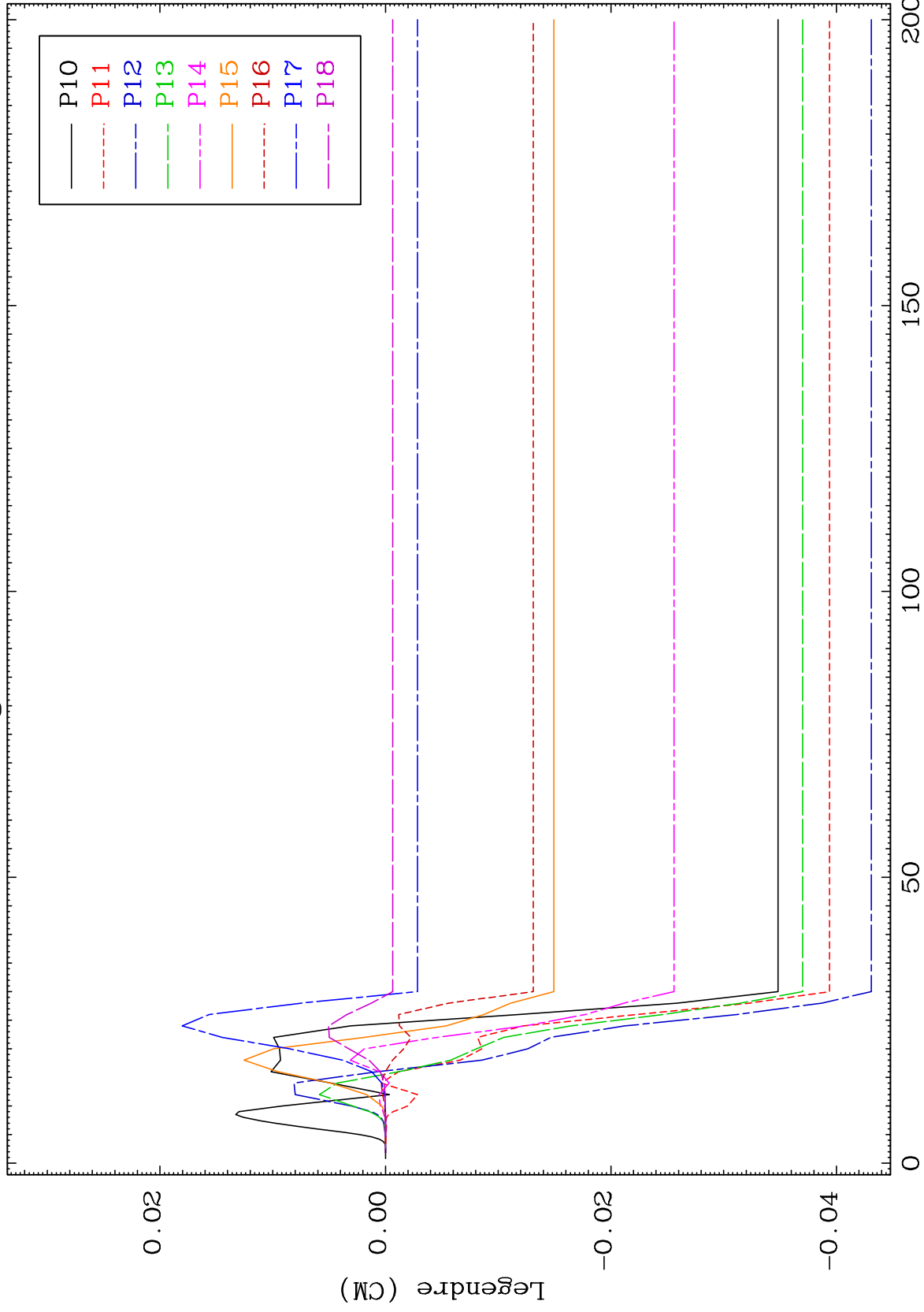




MAT 6895

MT= 60 (n,n') Level
Legendre Coefficients

69-Tm-159



57

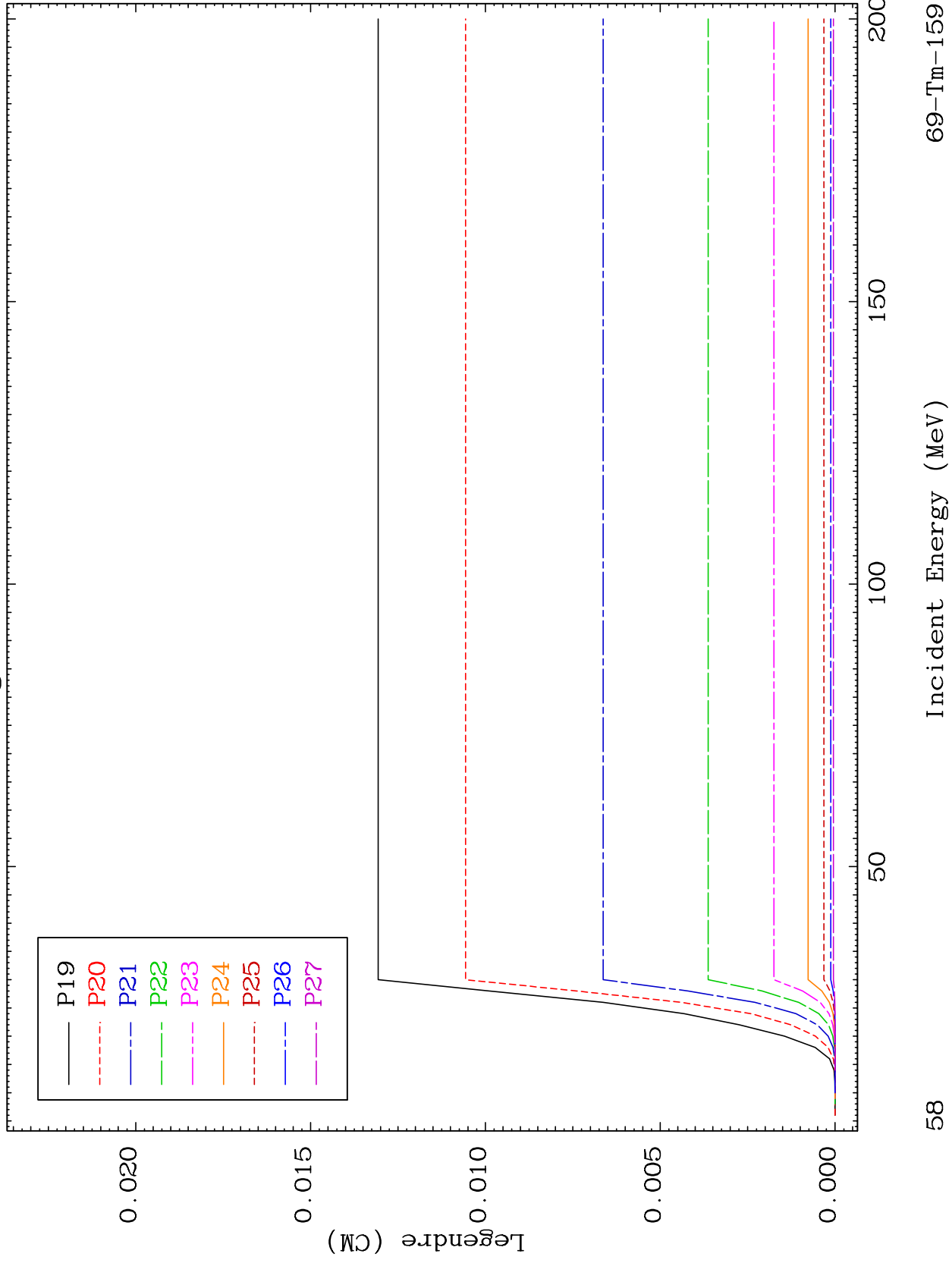
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 60 (n,n') Level
Legendre Coefficients

69-Tm-159



58

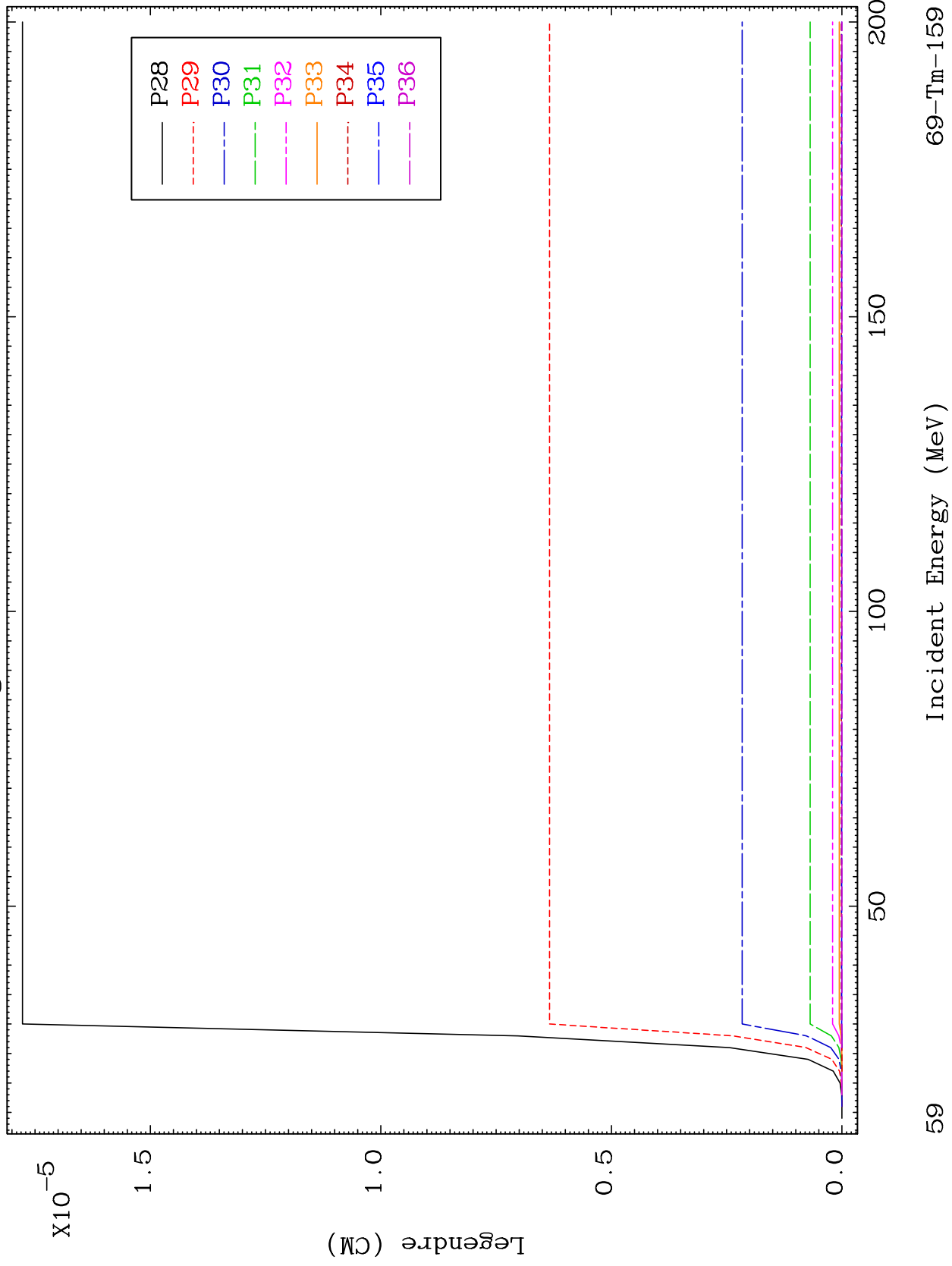
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 60 (n,n') Level
Legendre Coefficients

69-Tm-159



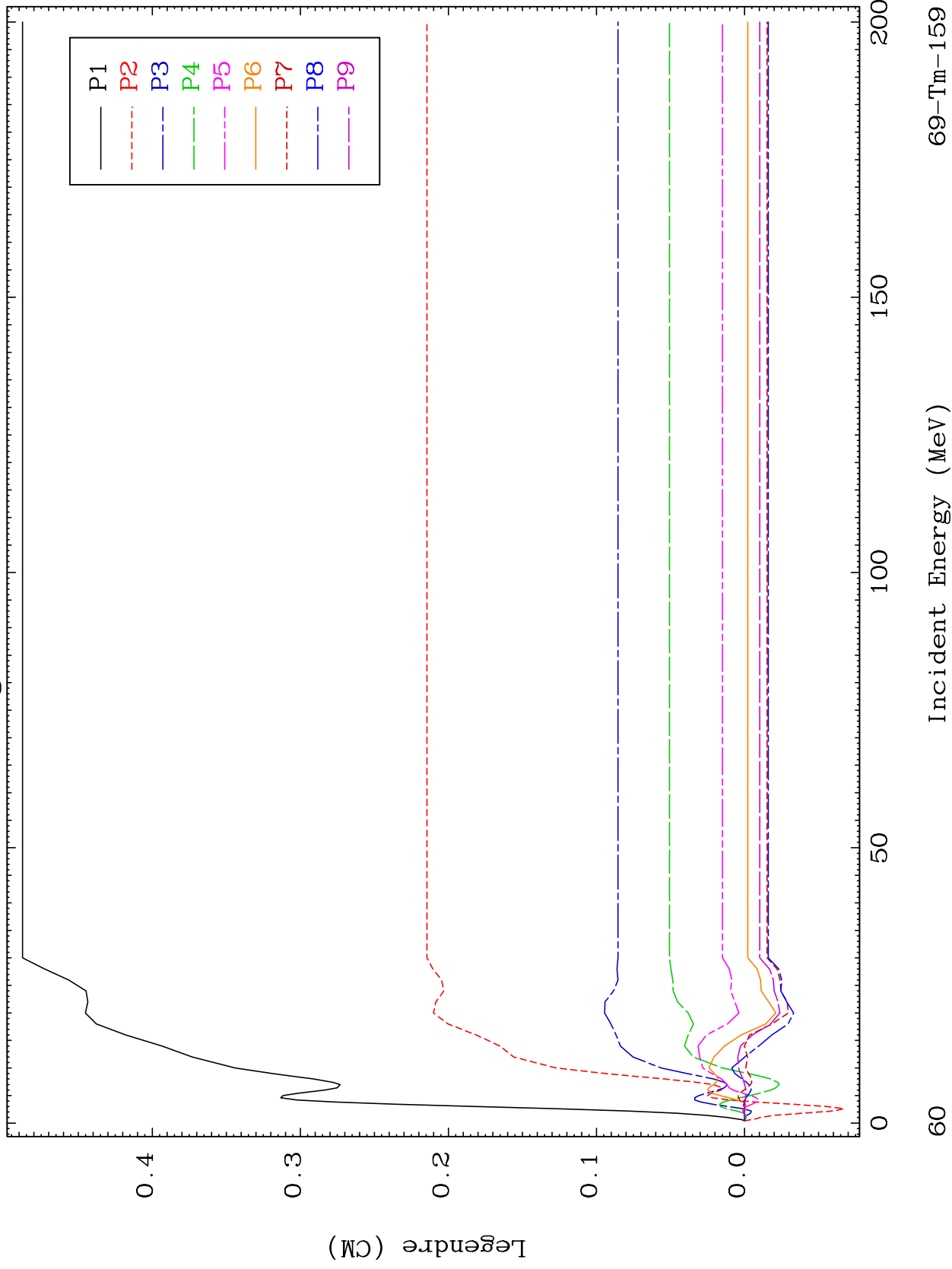
59

69-Tm-159

MAT 6895

MT= 61 (n,n') Level
Legendre Coefficients

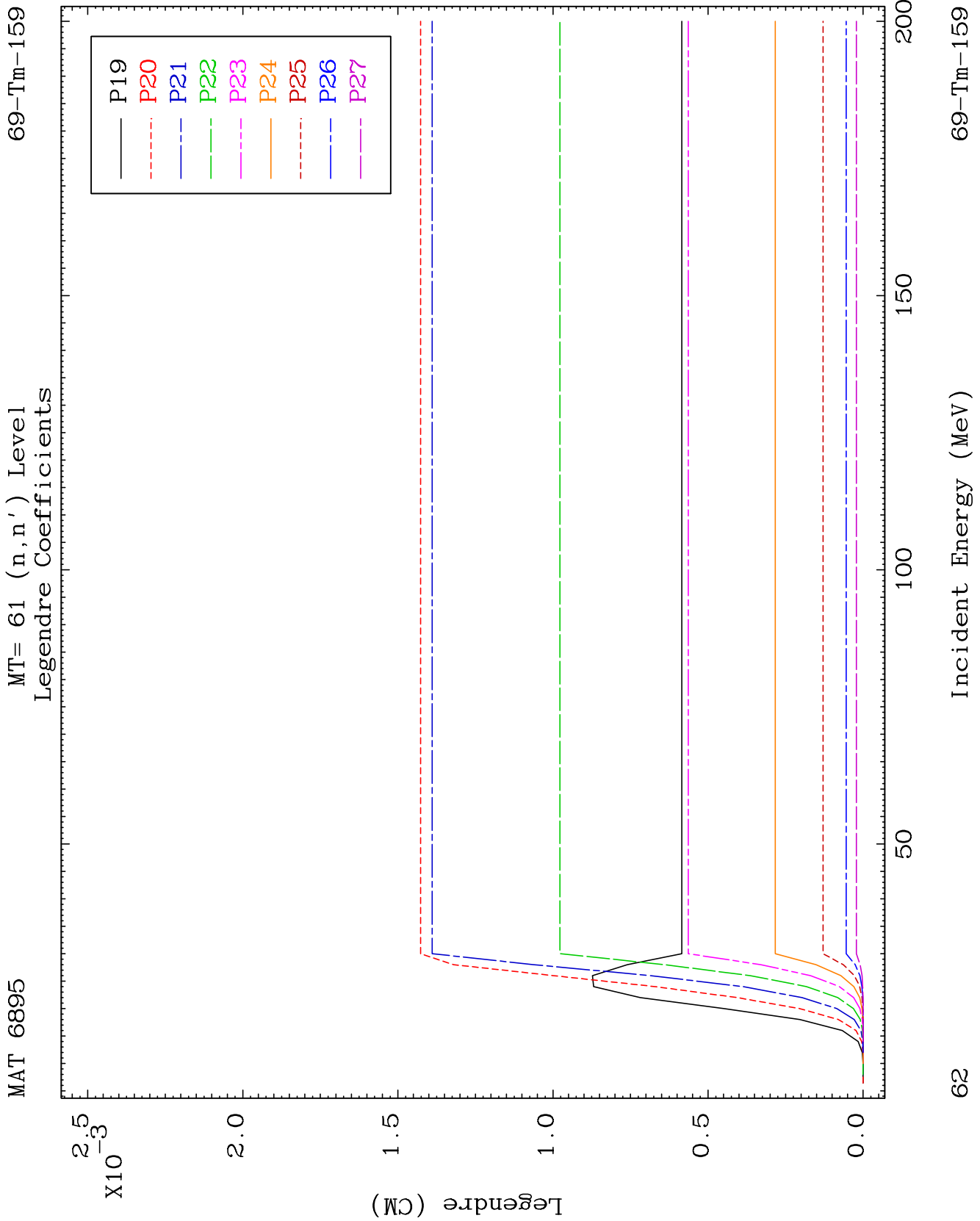
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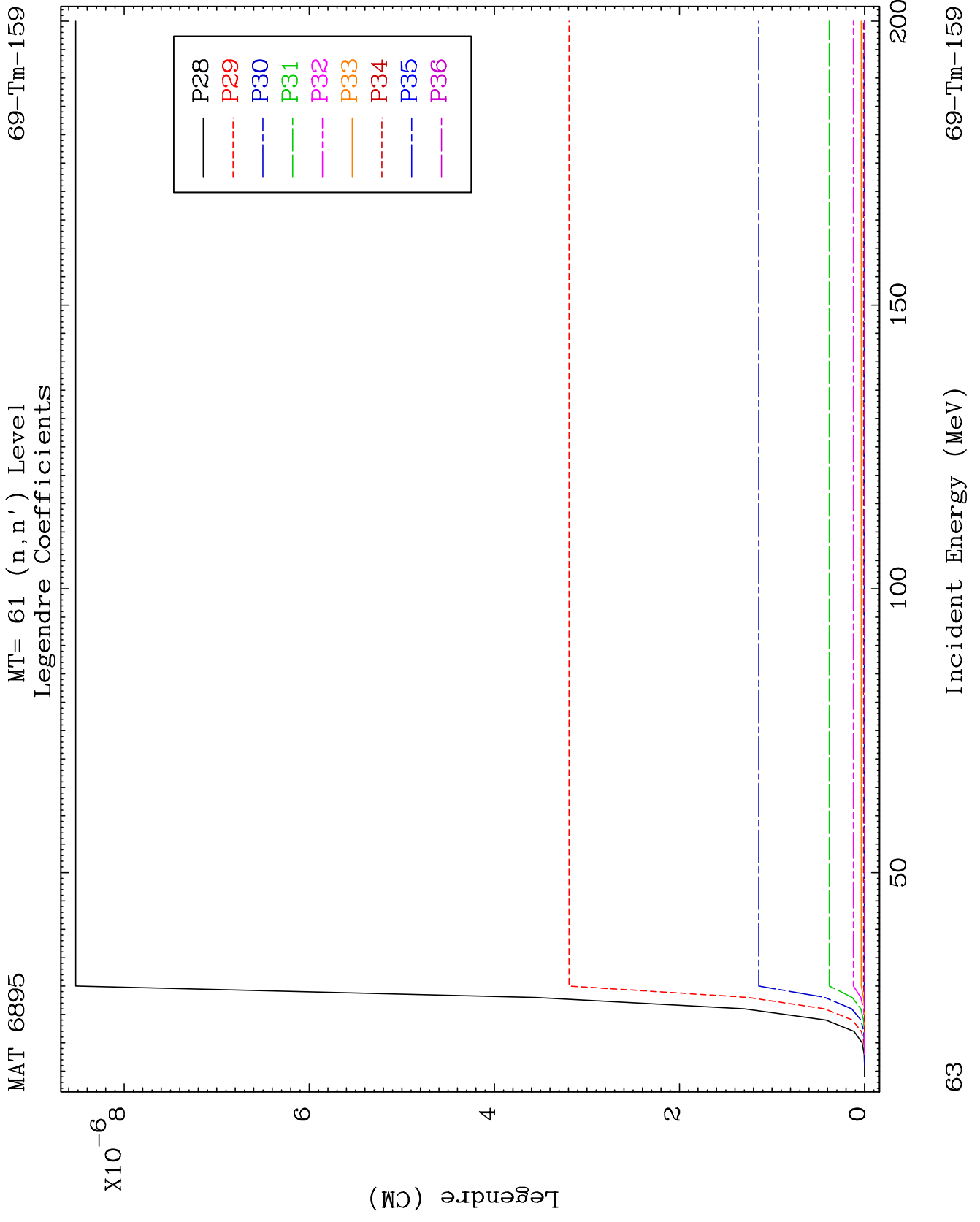


69-Tm-159

Incident Energy (MeV)

60

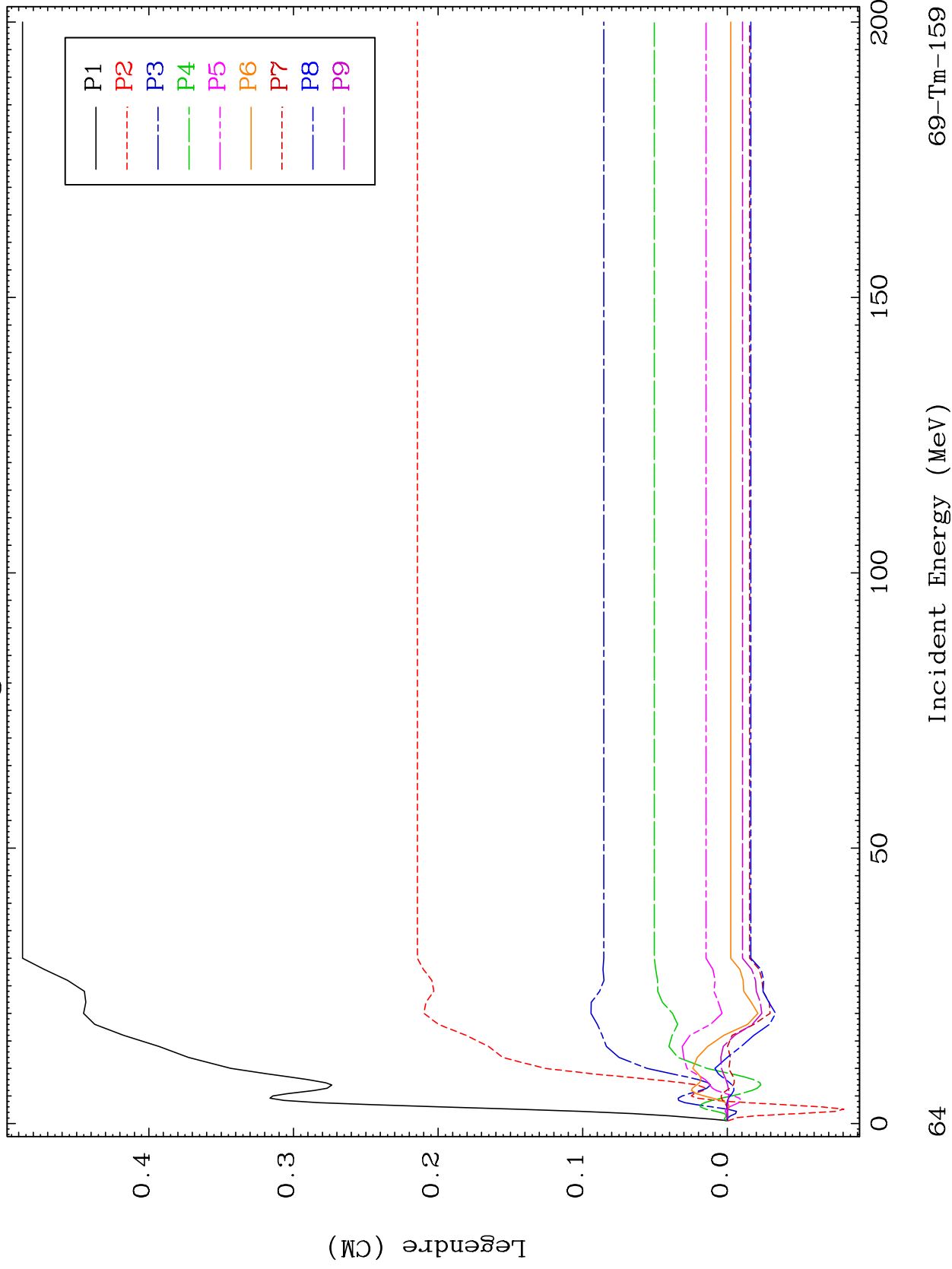




MAT 6895

MT= 62 (n,n') Level
Legendre Coefficients

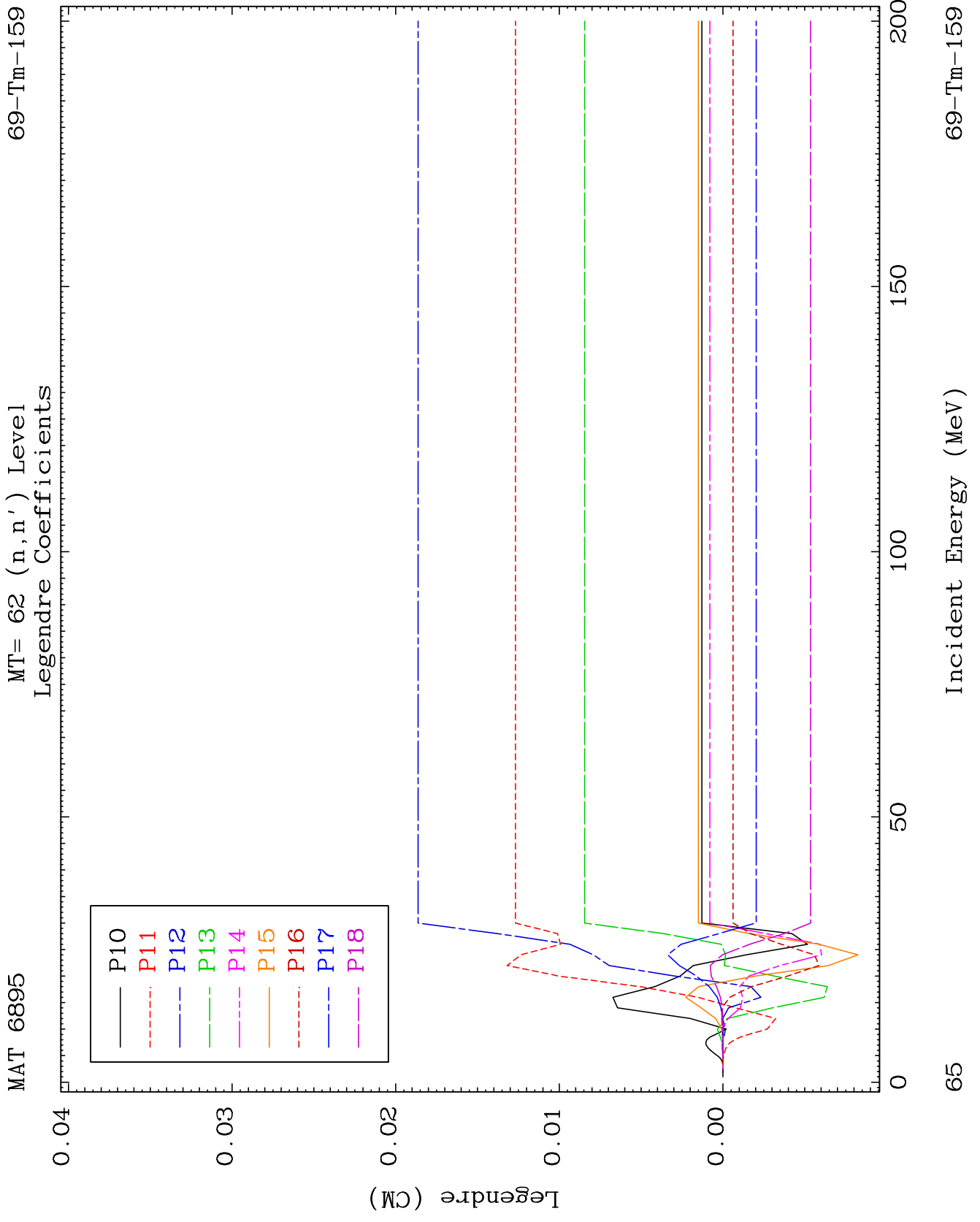
69-Tm-159



64

Incident Energy (MeV)

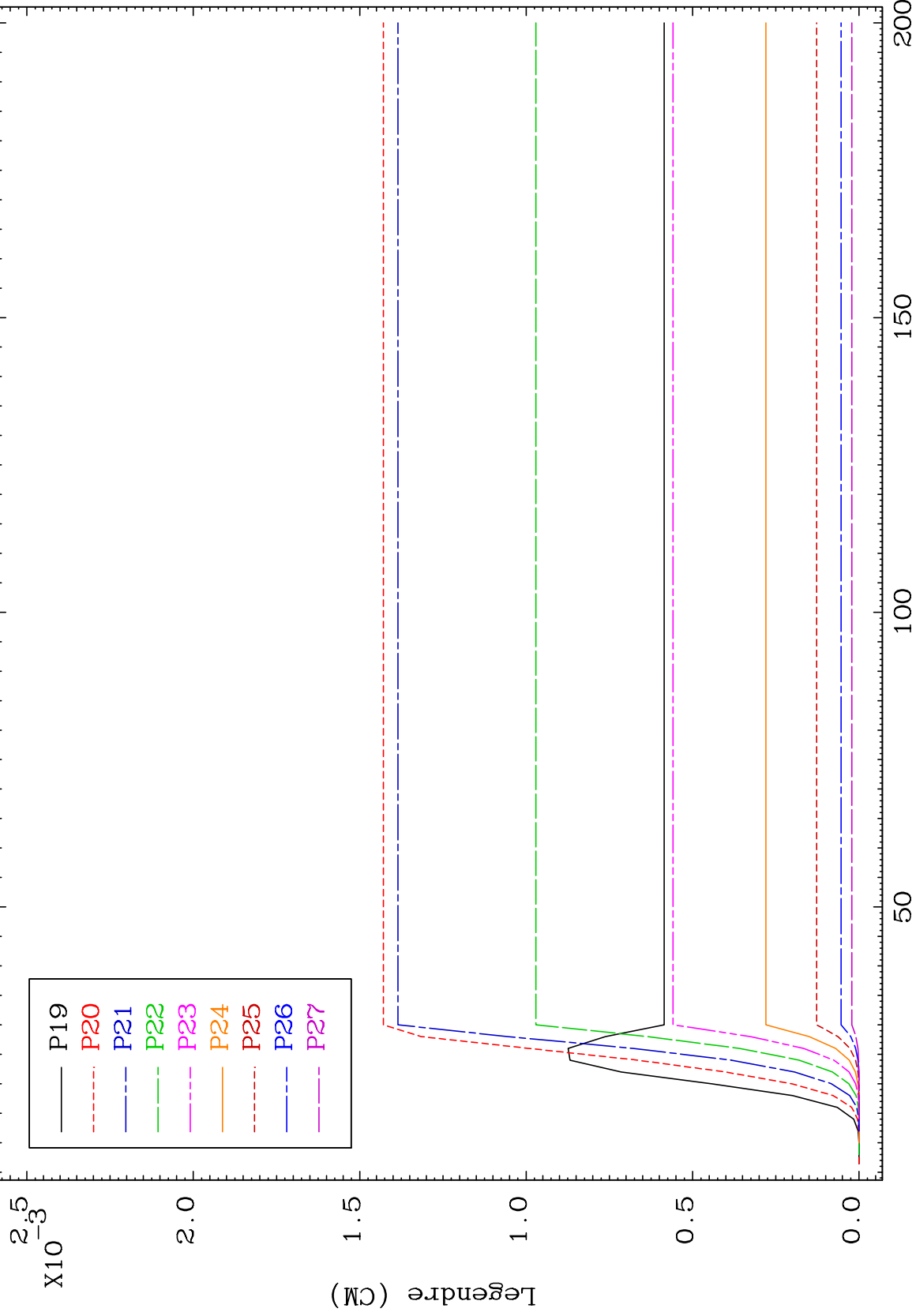
69-Tm-159



MAT 6895

MT= 62 (n,n') Level
Legendre Coefficients

69-Tm-159



66

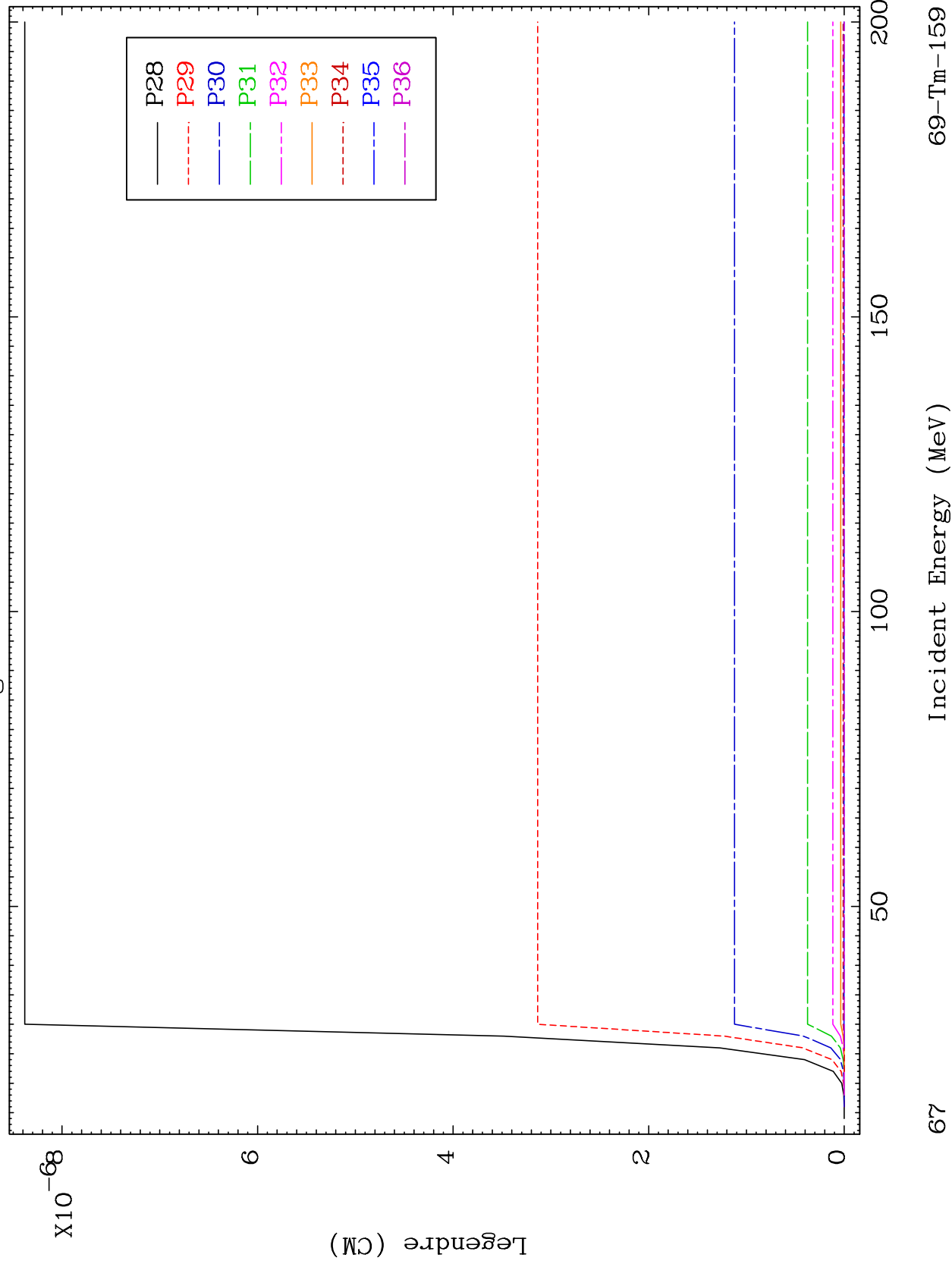
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 62 (n,n') Level
Legendre Coefficients

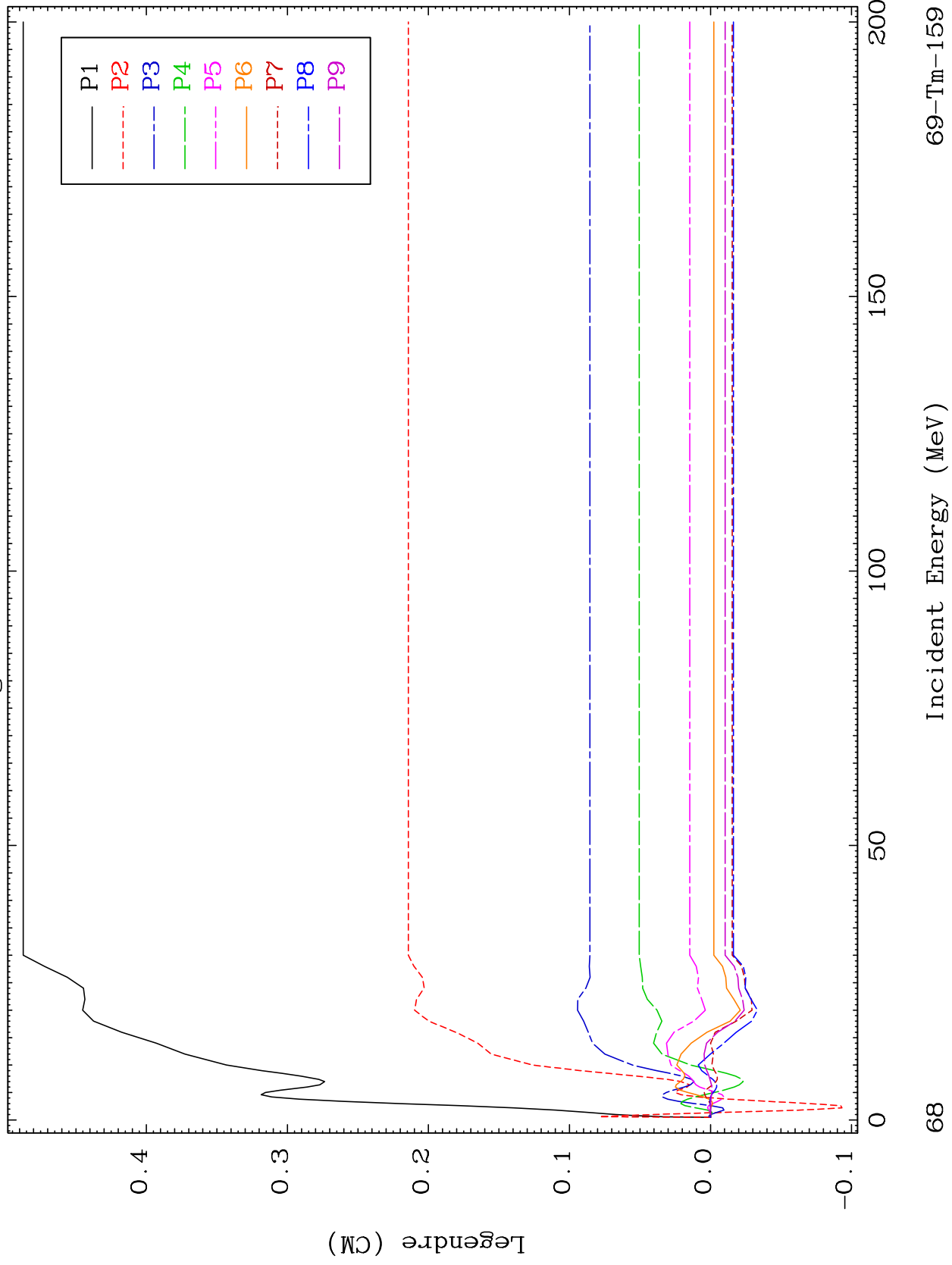
69-Tm-159



MAT 6895

MT= 63 (n,n') Level
Legendre Coefficients

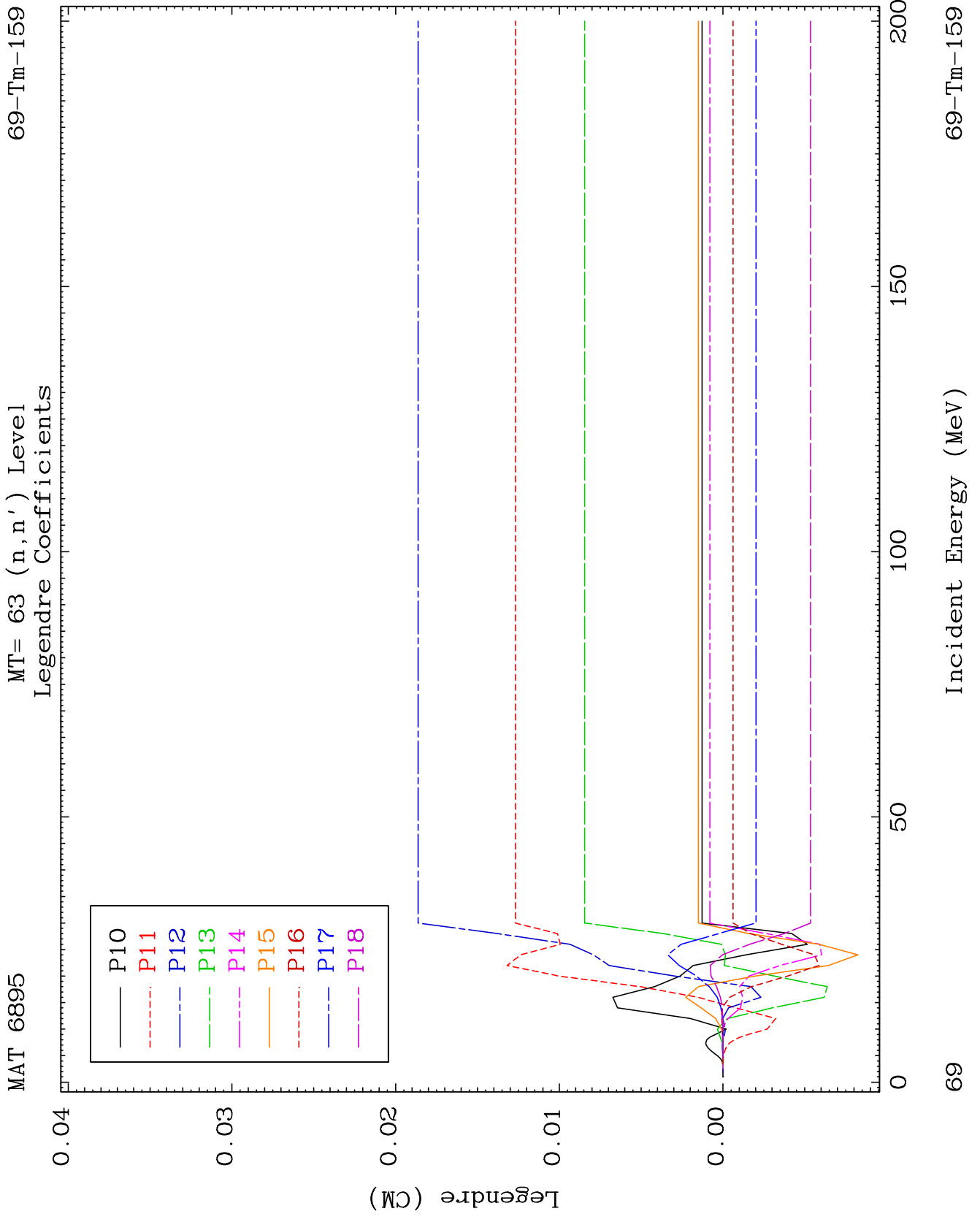
69-Tm-159



69-Tm-159

Incident Energy (MeV)

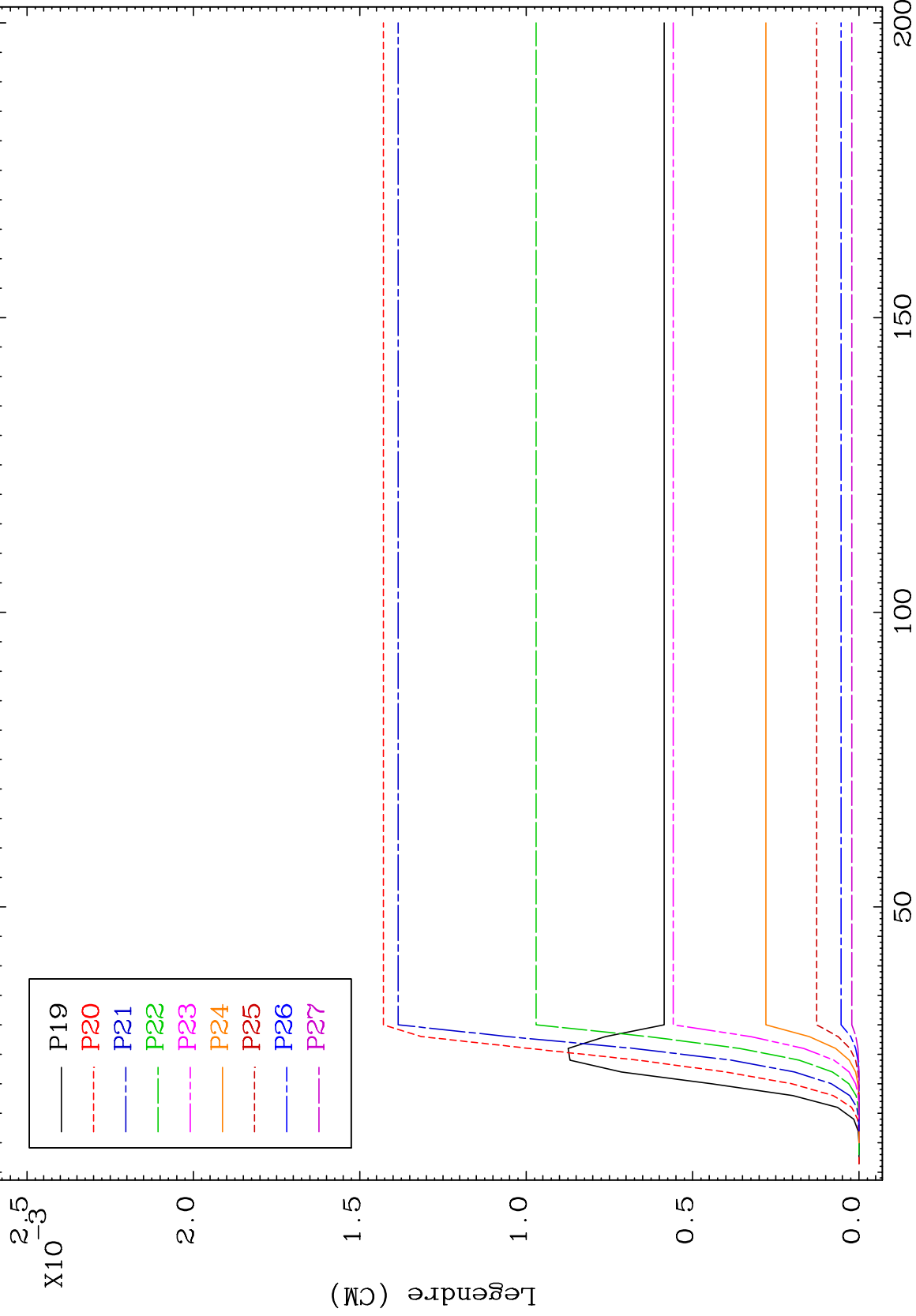
68



MAT 6895

MT= 63 (n,n') Level
Legendre Coefficients

69-Tm-159



70

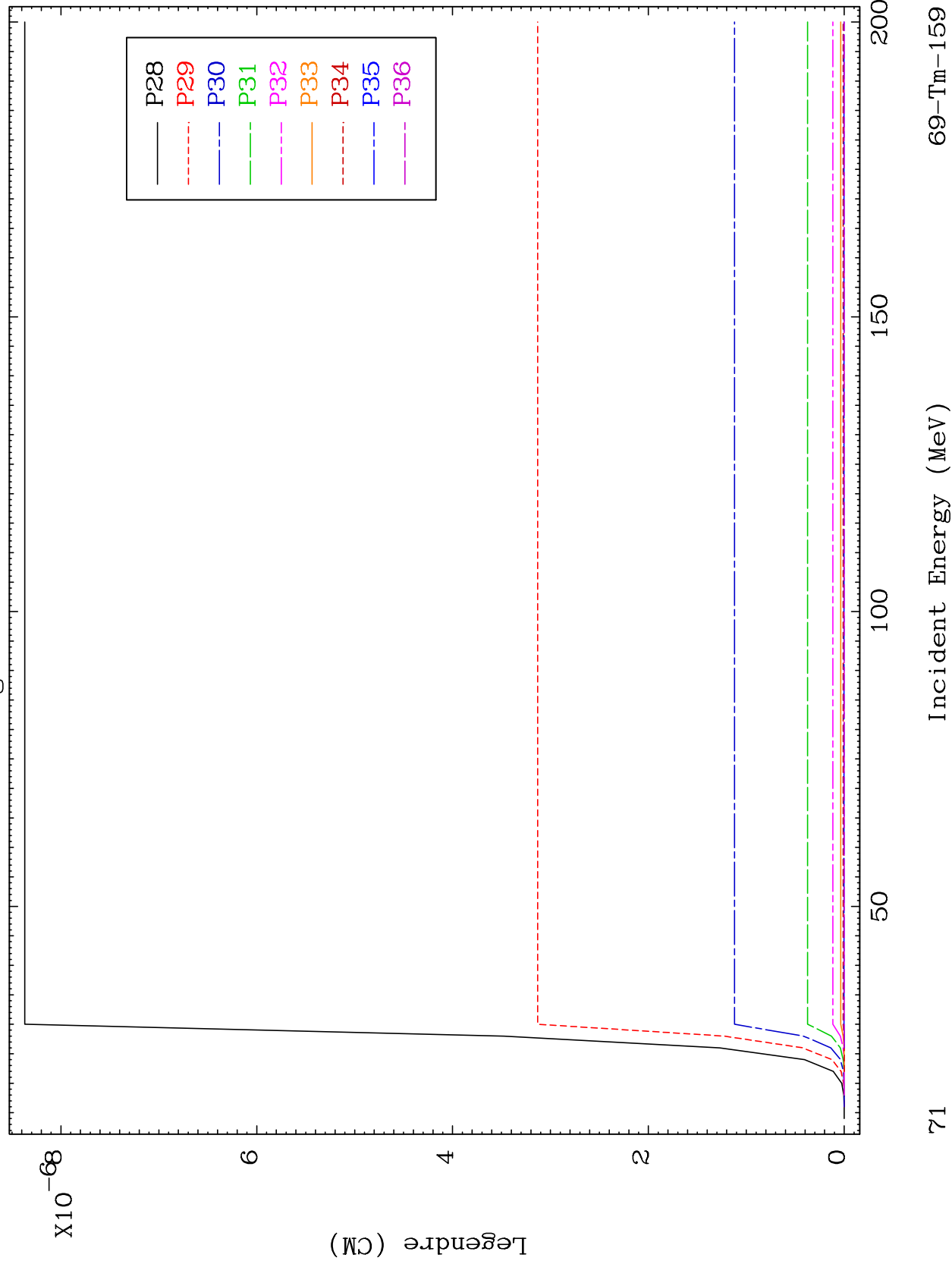
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 63 (n,n') Level
Legendre Coefficients

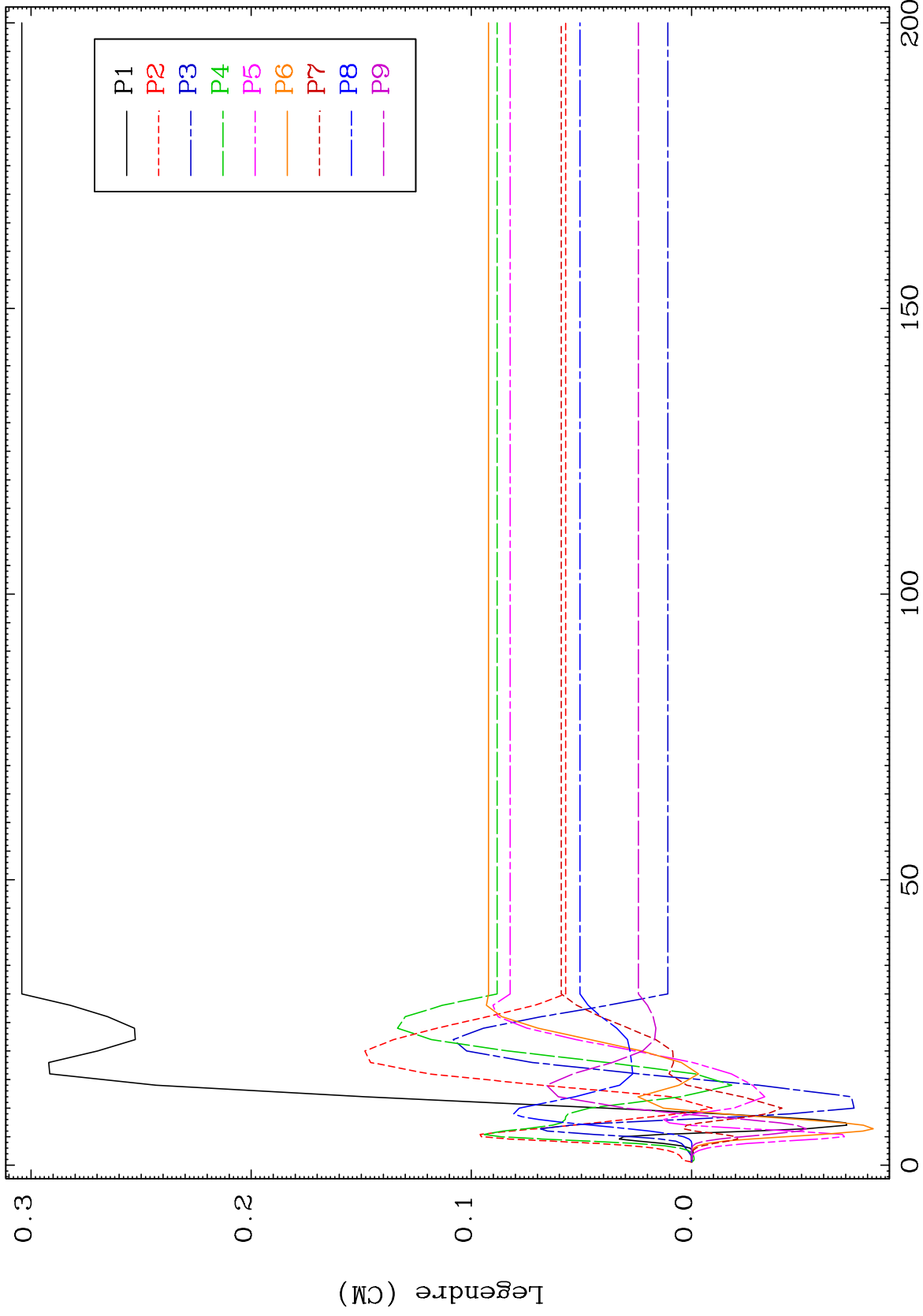
69-Tm-159



MAT 6895

MT= 64 (n,n') Level
Legendre Coefficients

69-Tm-159



72

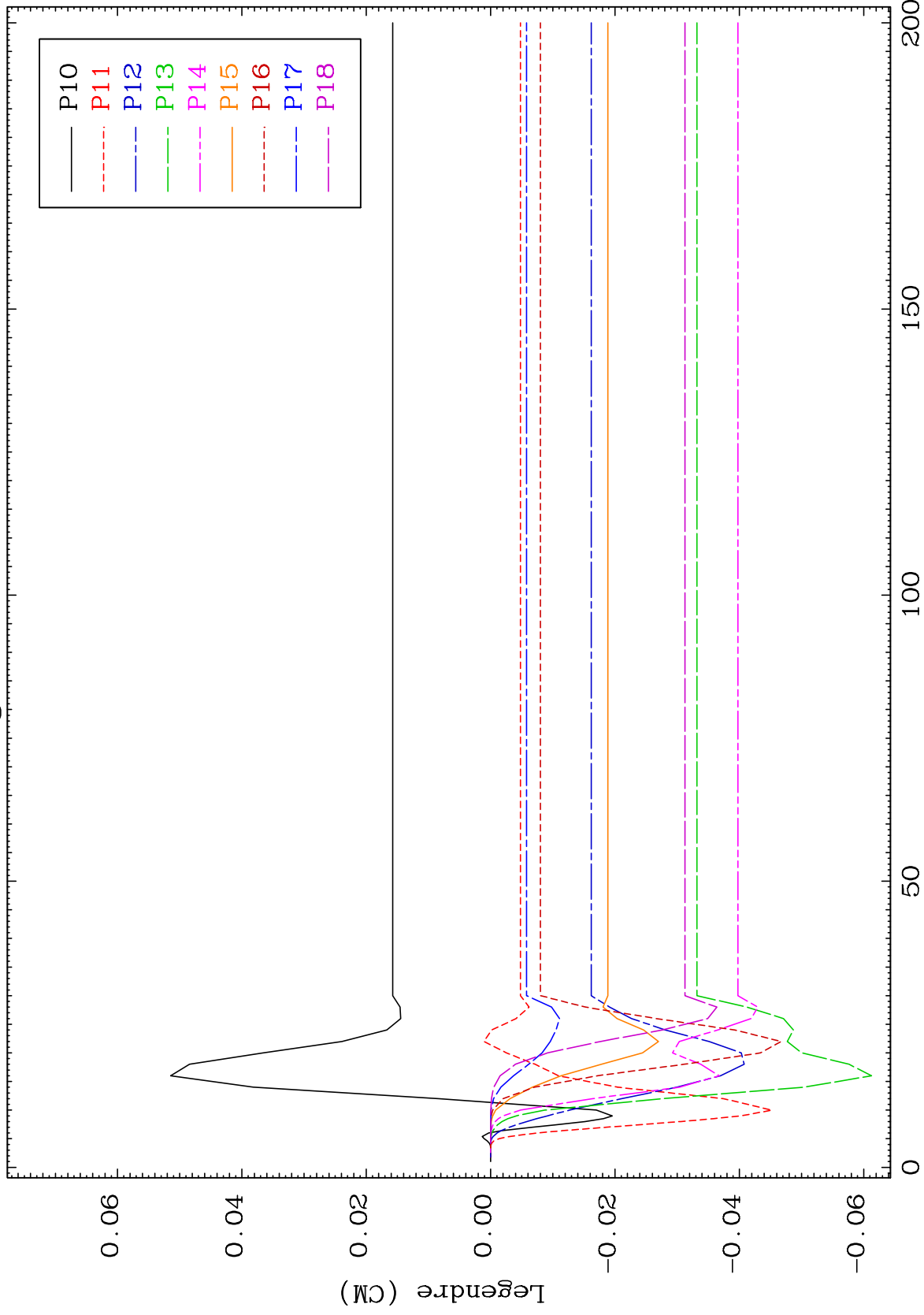
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 64 (n,n') Level
Legendre Coefficients

69-Tm-159



73

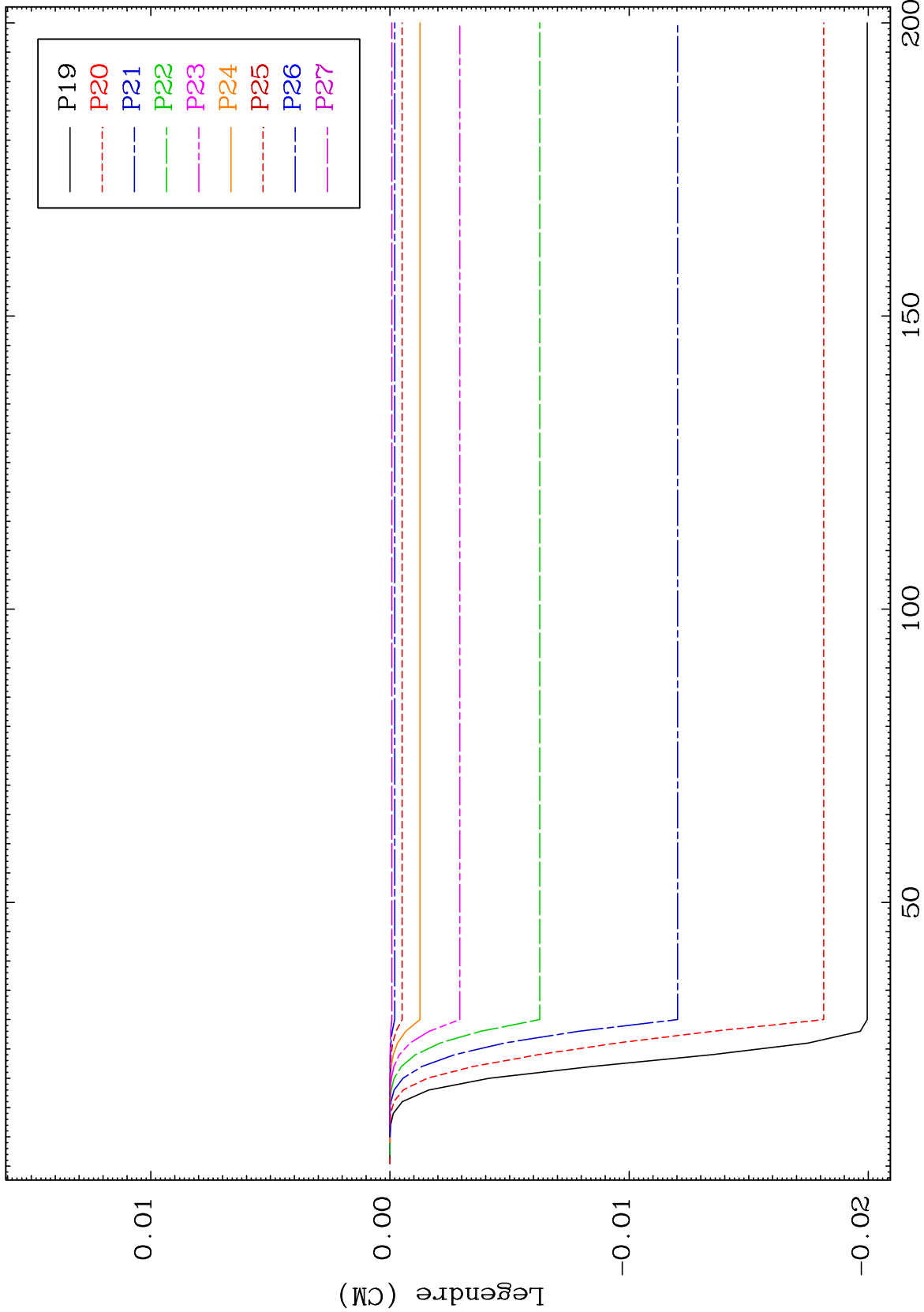
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 64 (n,n') Level
Legendre Coefficients

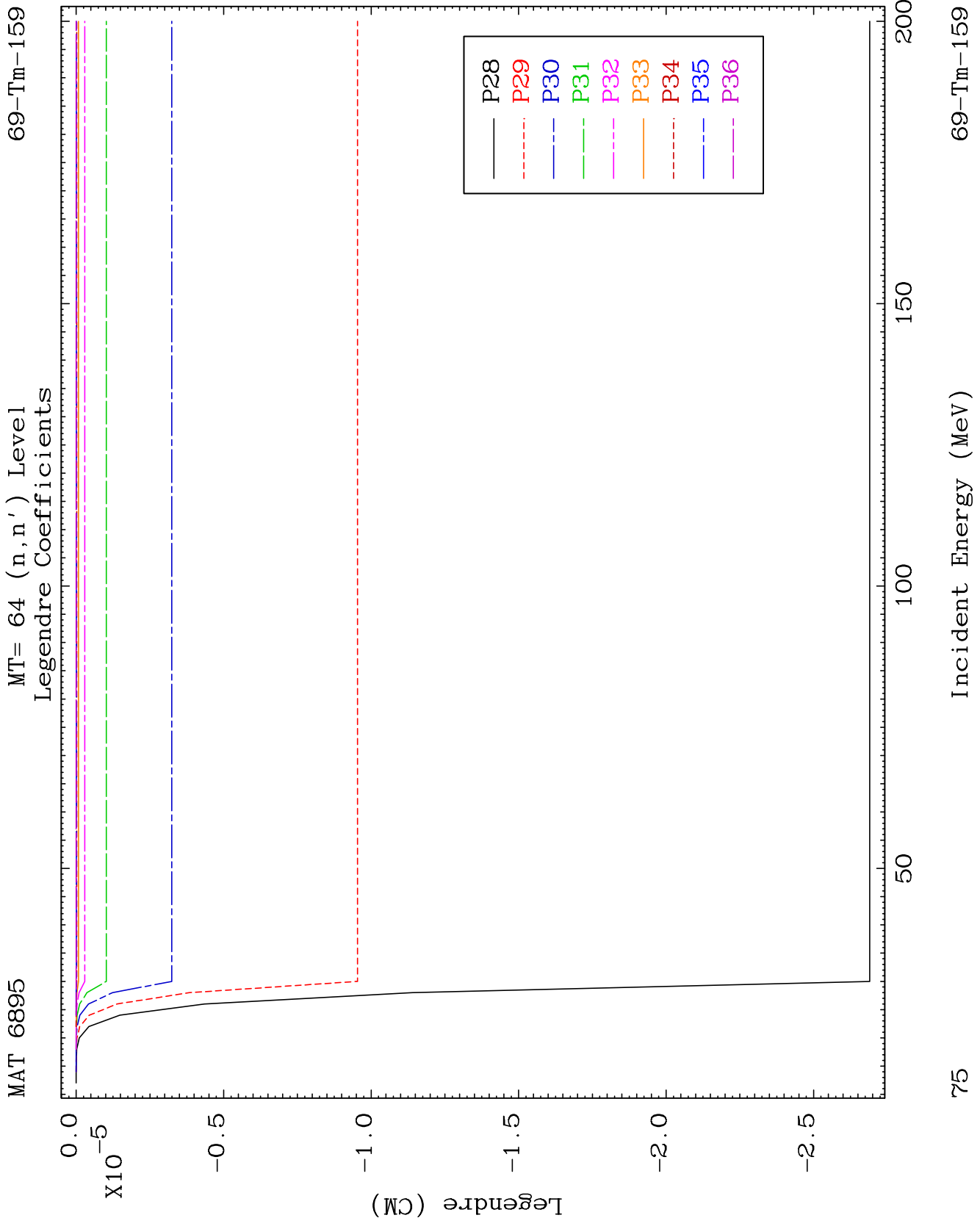
69-Tm-159



74

Incident Energy (MeV)

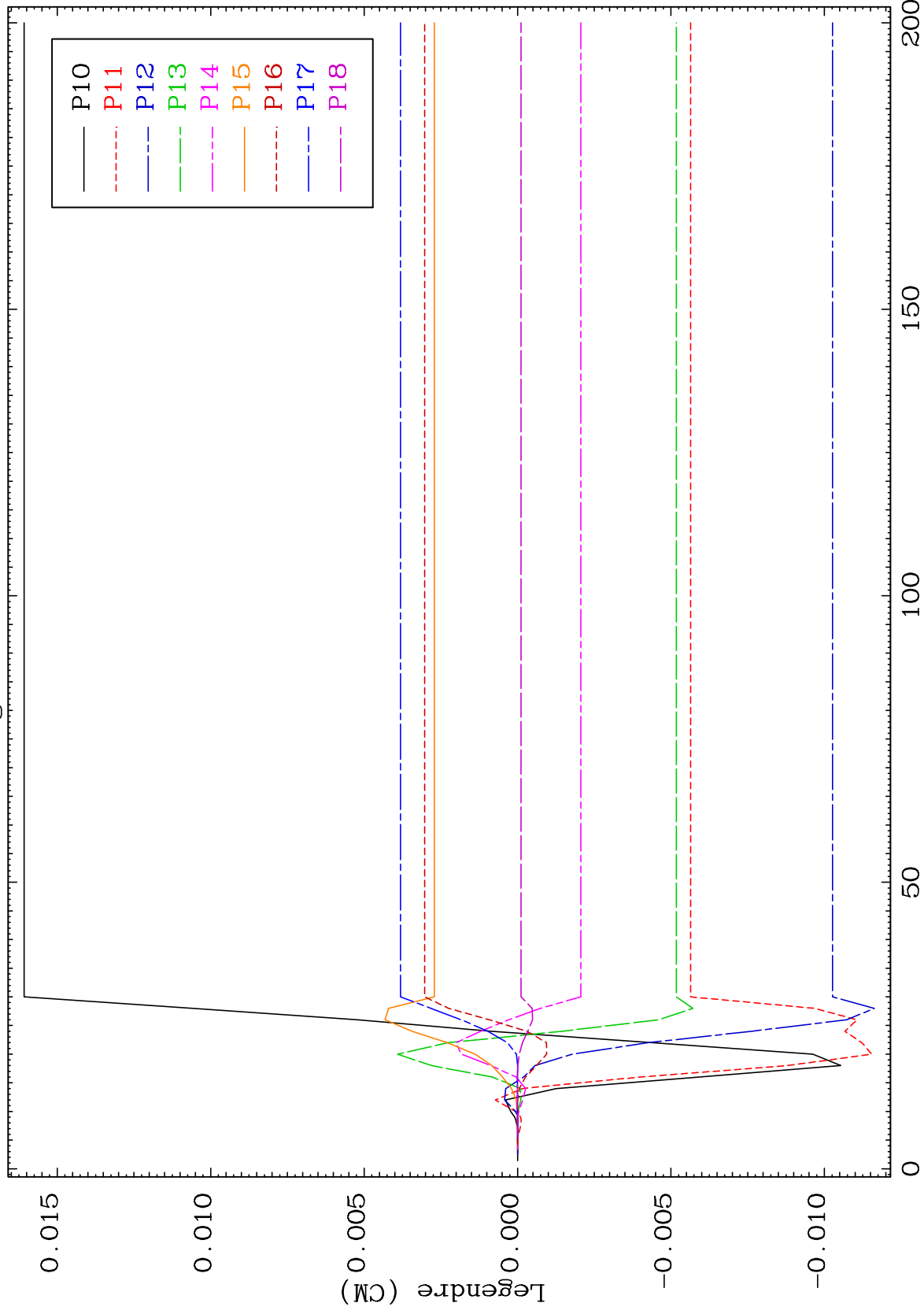
69-Tm-159



MAT 6895

MT= 65 (n,n') Level
Legendre Coefficients

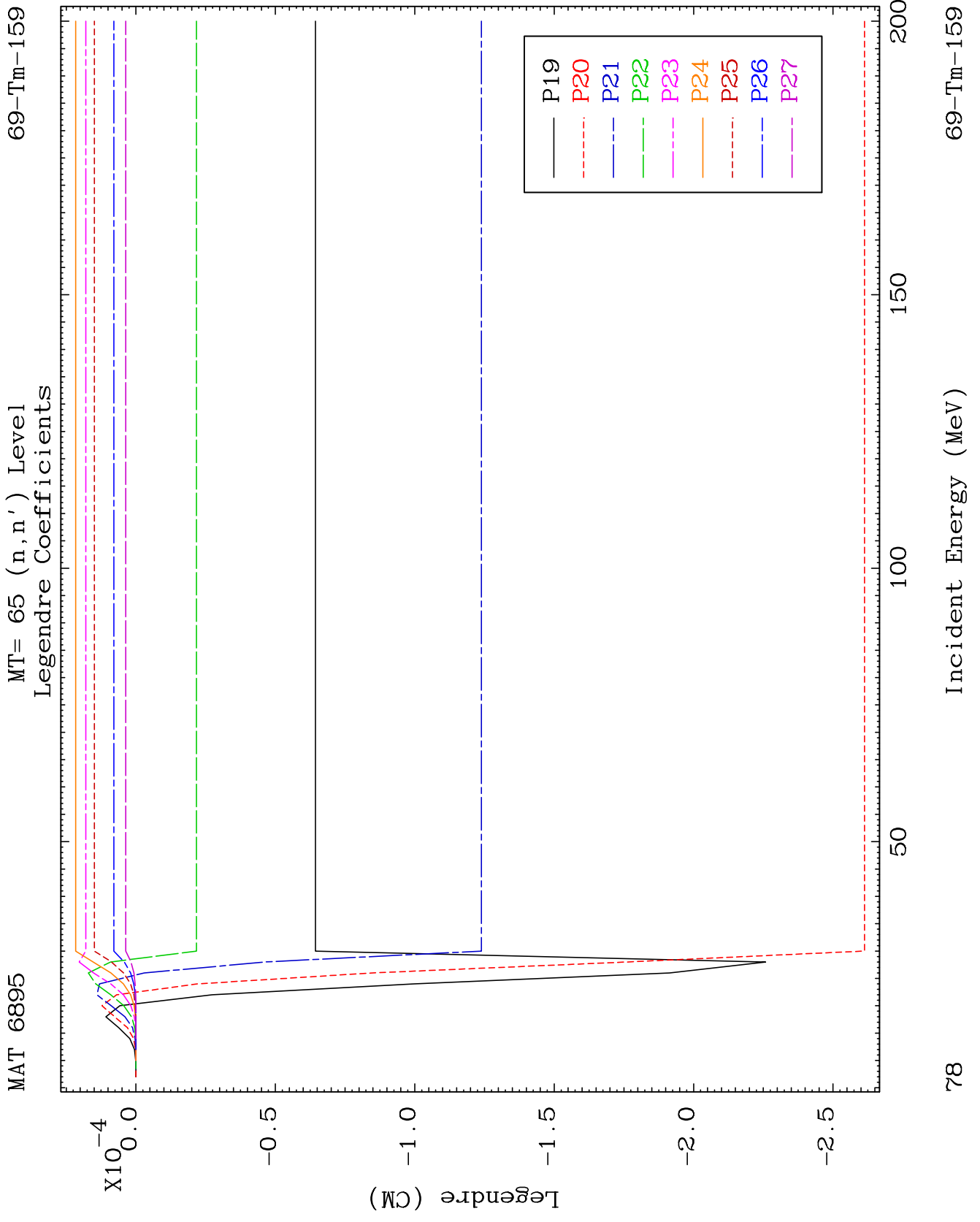
69-Tm-159



77

Incident Energy (MeV)

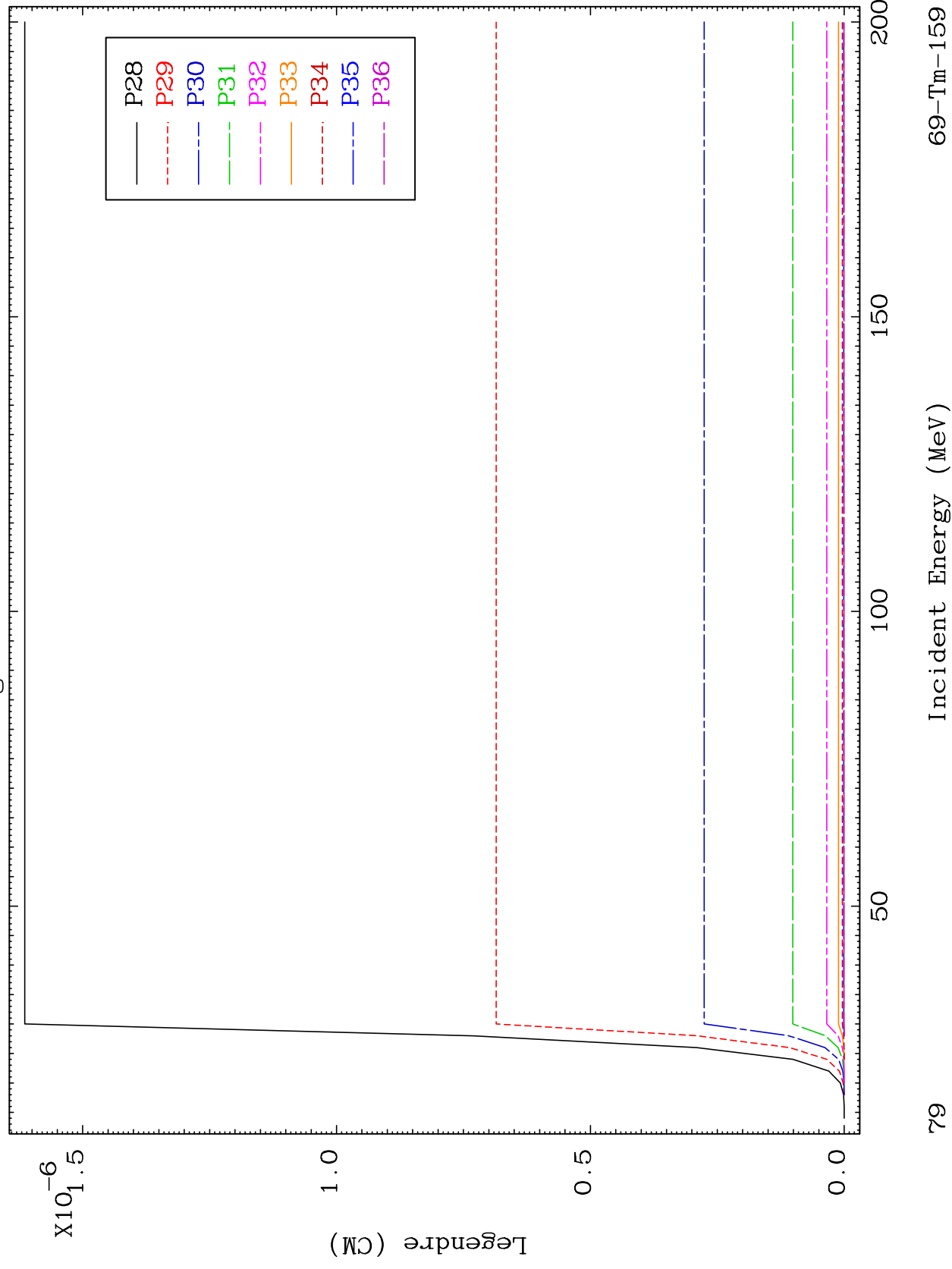
69-Tm-159



MAT 6895

MT= 65 (n,n') Level
Legendre Coefficients

69-Tm-159



79

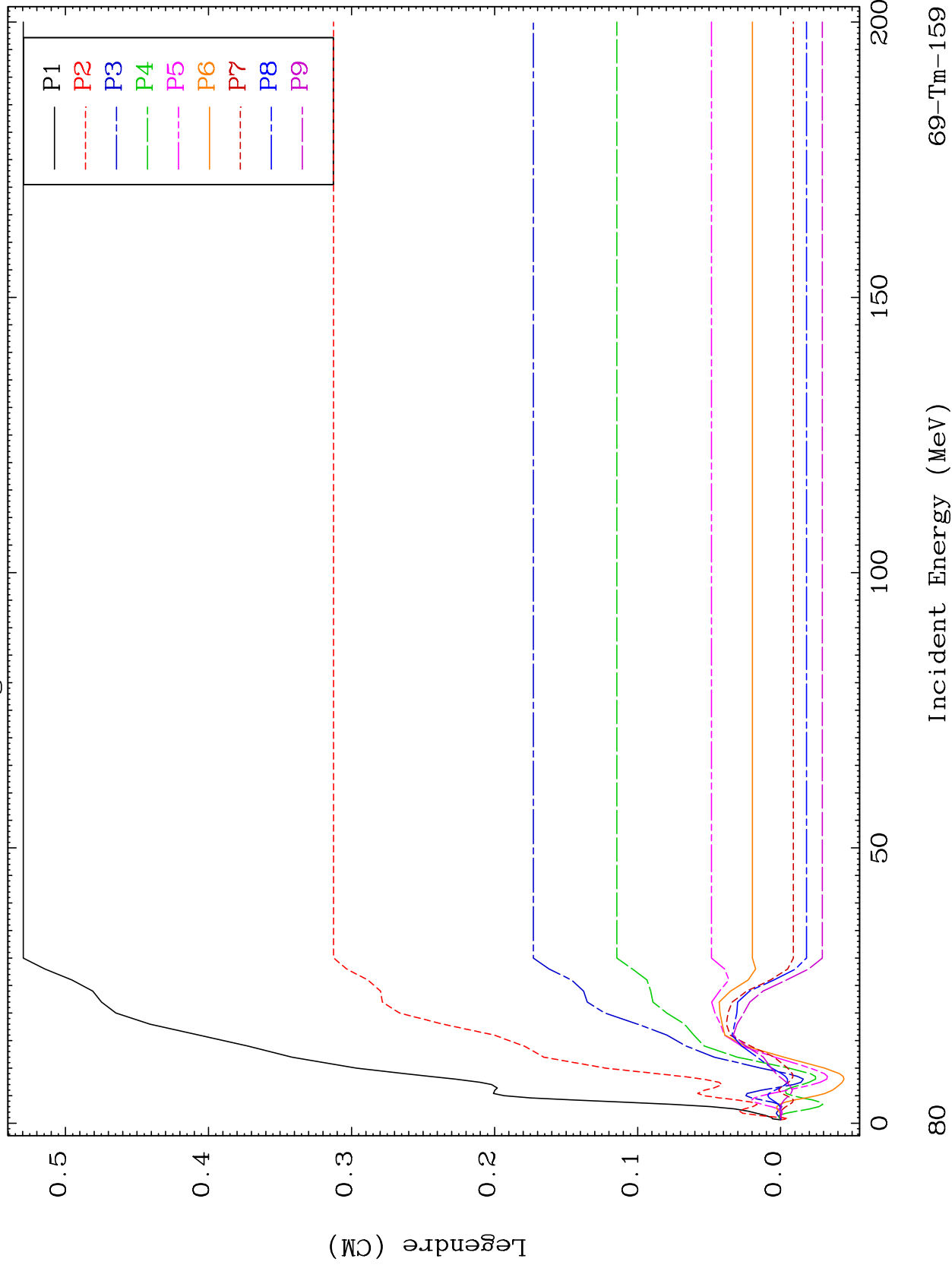
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 66 (n,n') Level
Legendre Coefficients

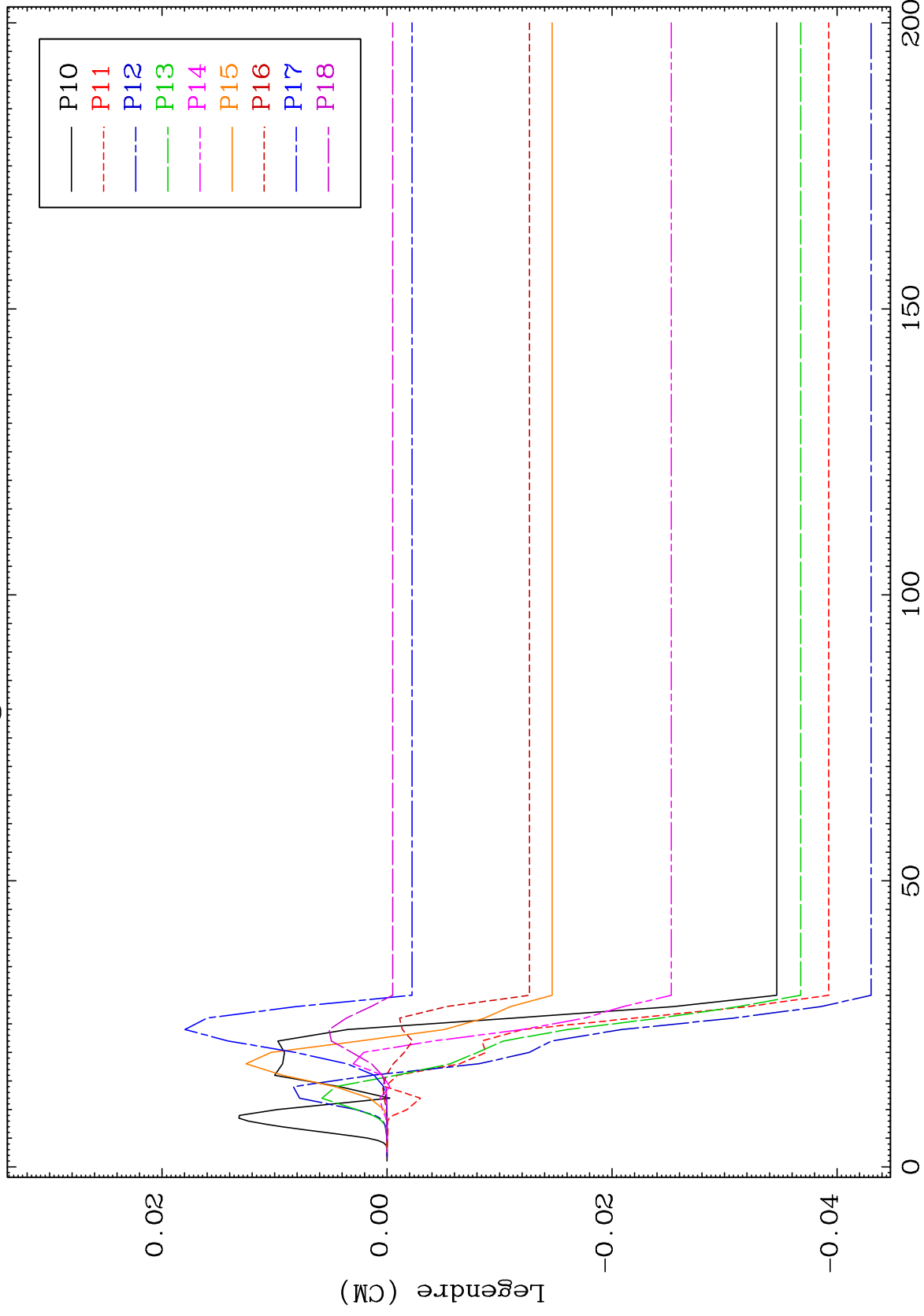
69-Tm-159



MAT 6895

MT= 66 (n,n') Level
Legendre Coefficients

69-Tm-159



81

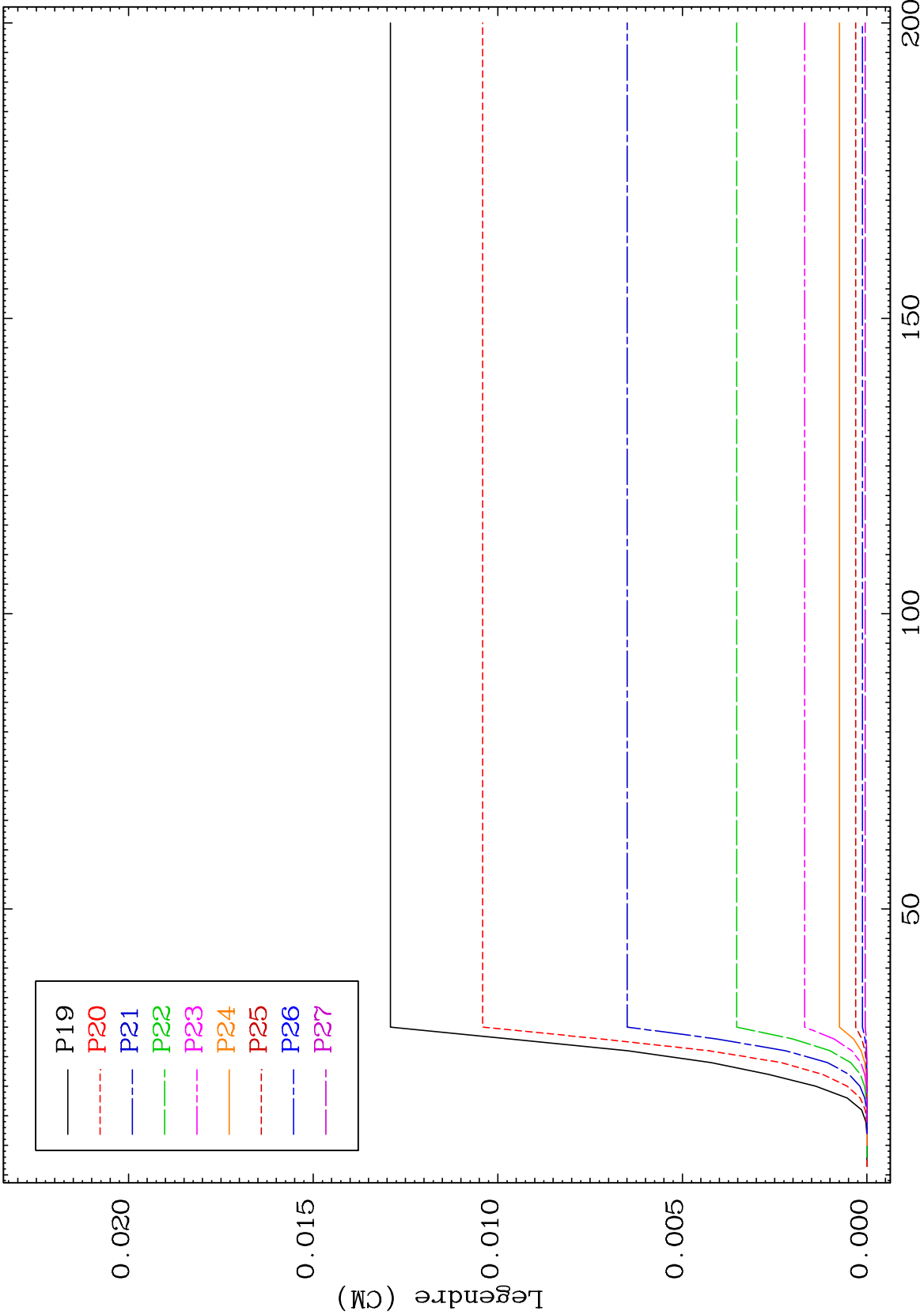
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 66 (n,n') Level
Legendre Coefficients

69-Tm-159



82

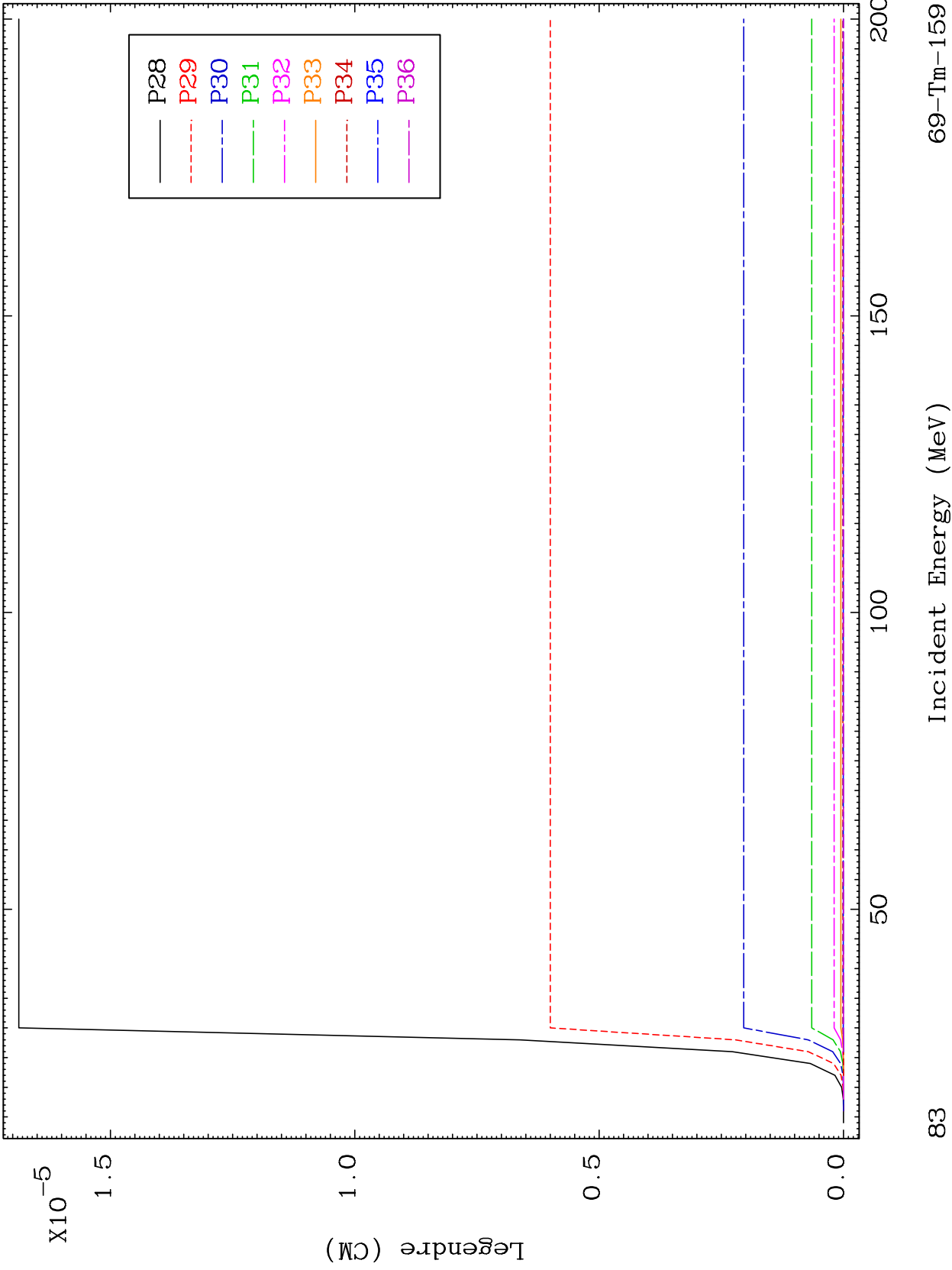
Incident Energy (MeV)

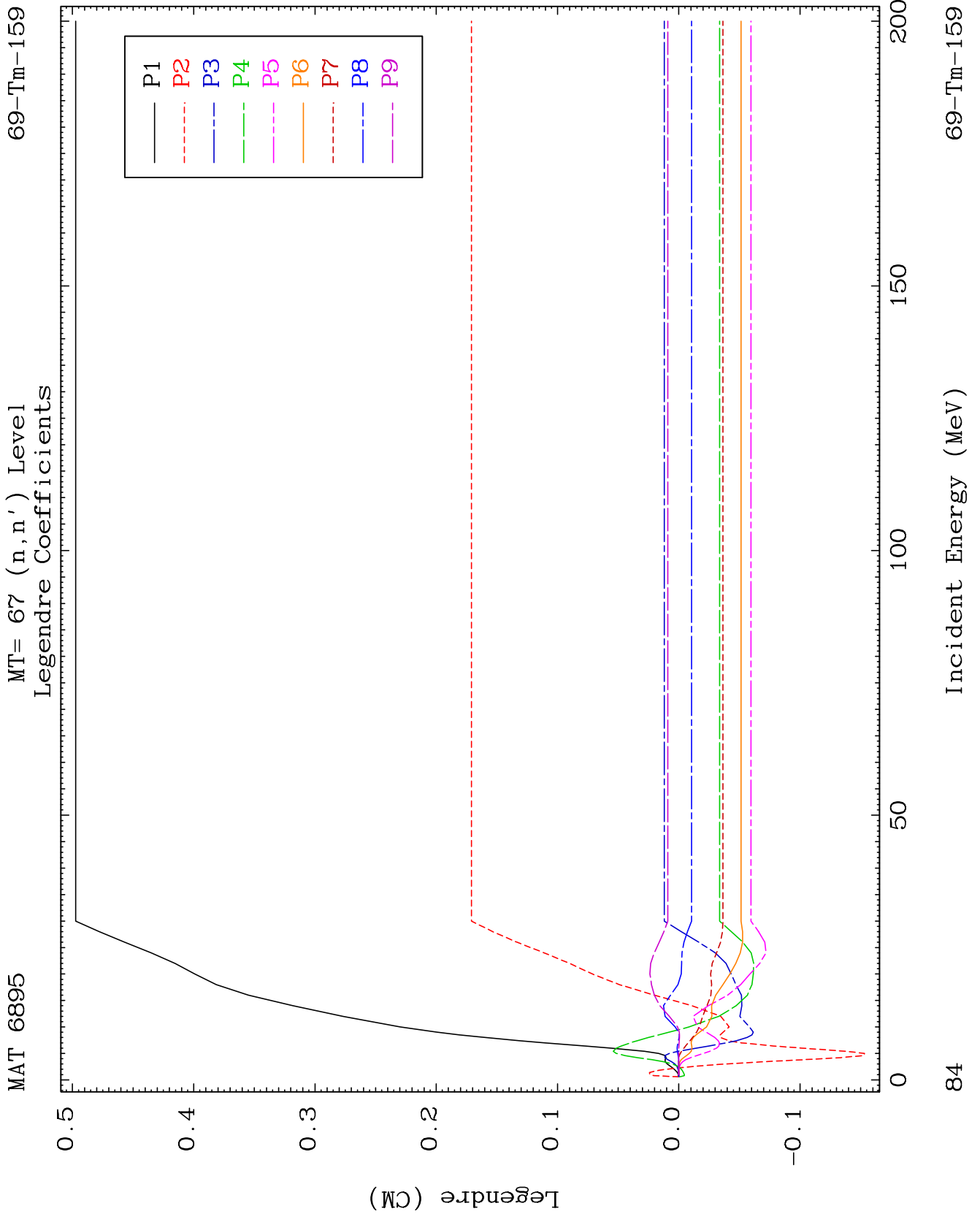
69-Tm-159

MAT 6895

MT= 66 (n,n') Level
Legendre Coefficients

69-Tm-159

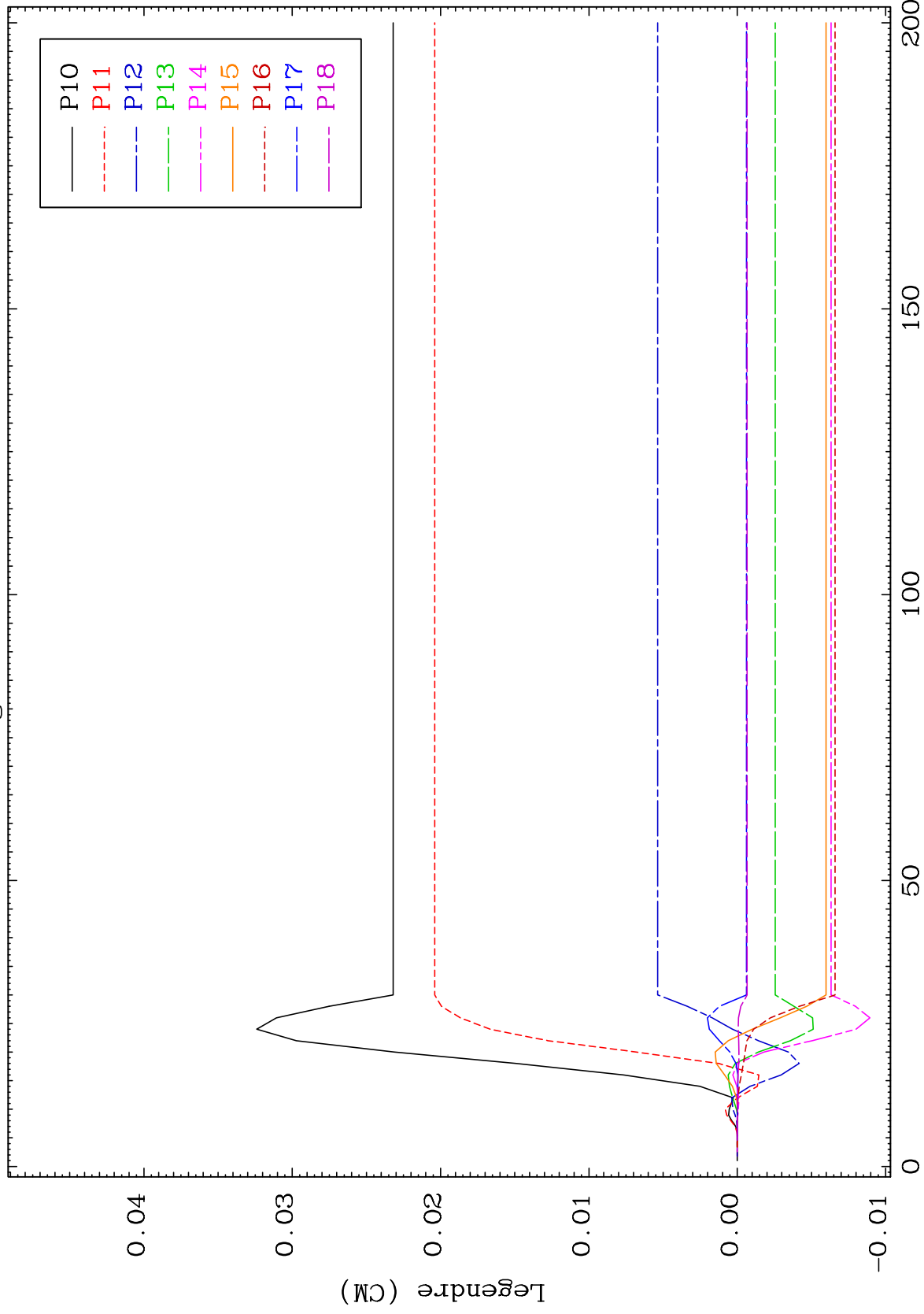




MAT 6895

MT= 67 (n,n') Level
Legendre Coefficients

69-Tm-159



85

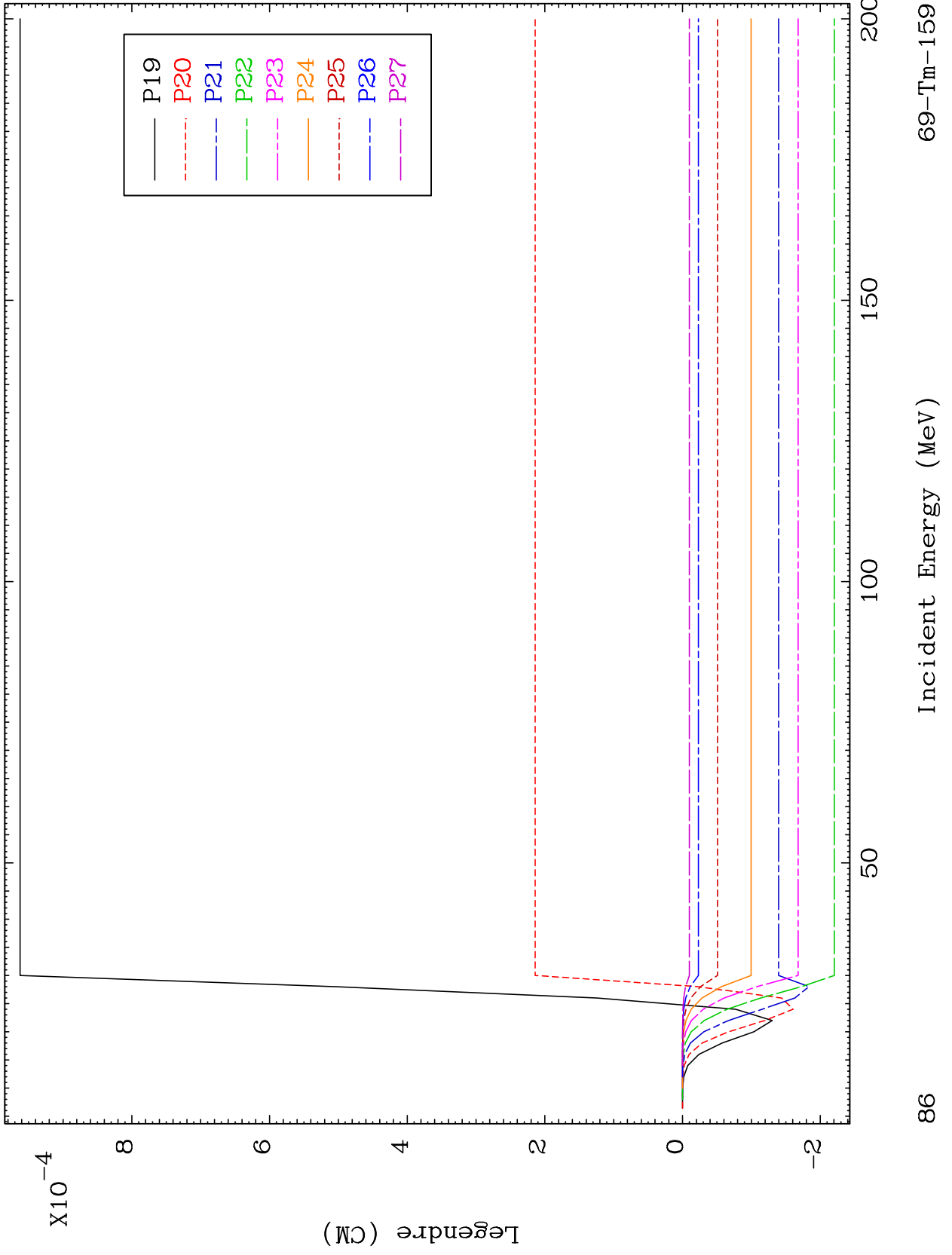
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 67 (n,n') Level
Legendre Coefficients

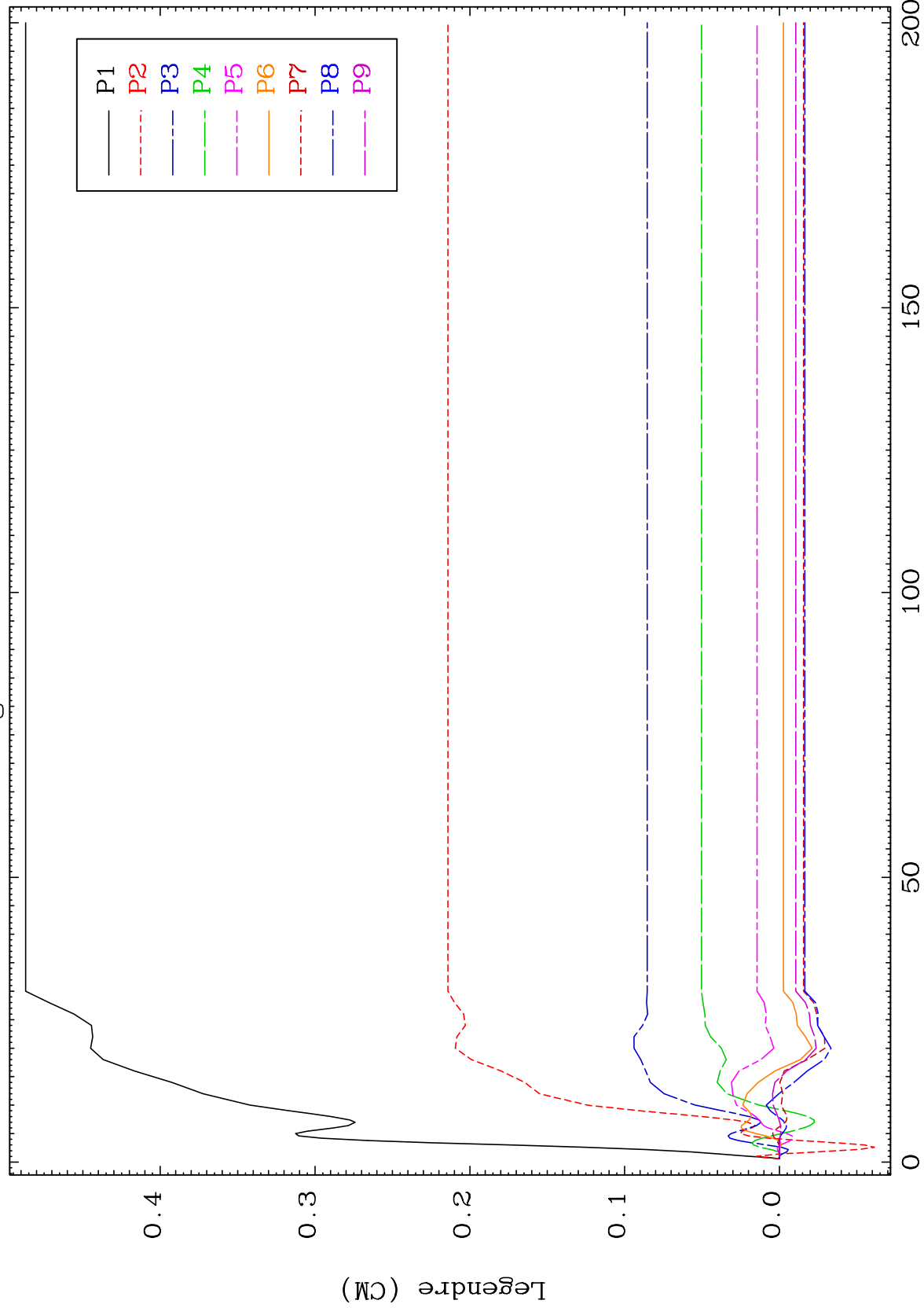
69-Tm-159



MAT 6895

MT= 68 (n,n') Level
Legendre Coefficients

69-Tm-159



88

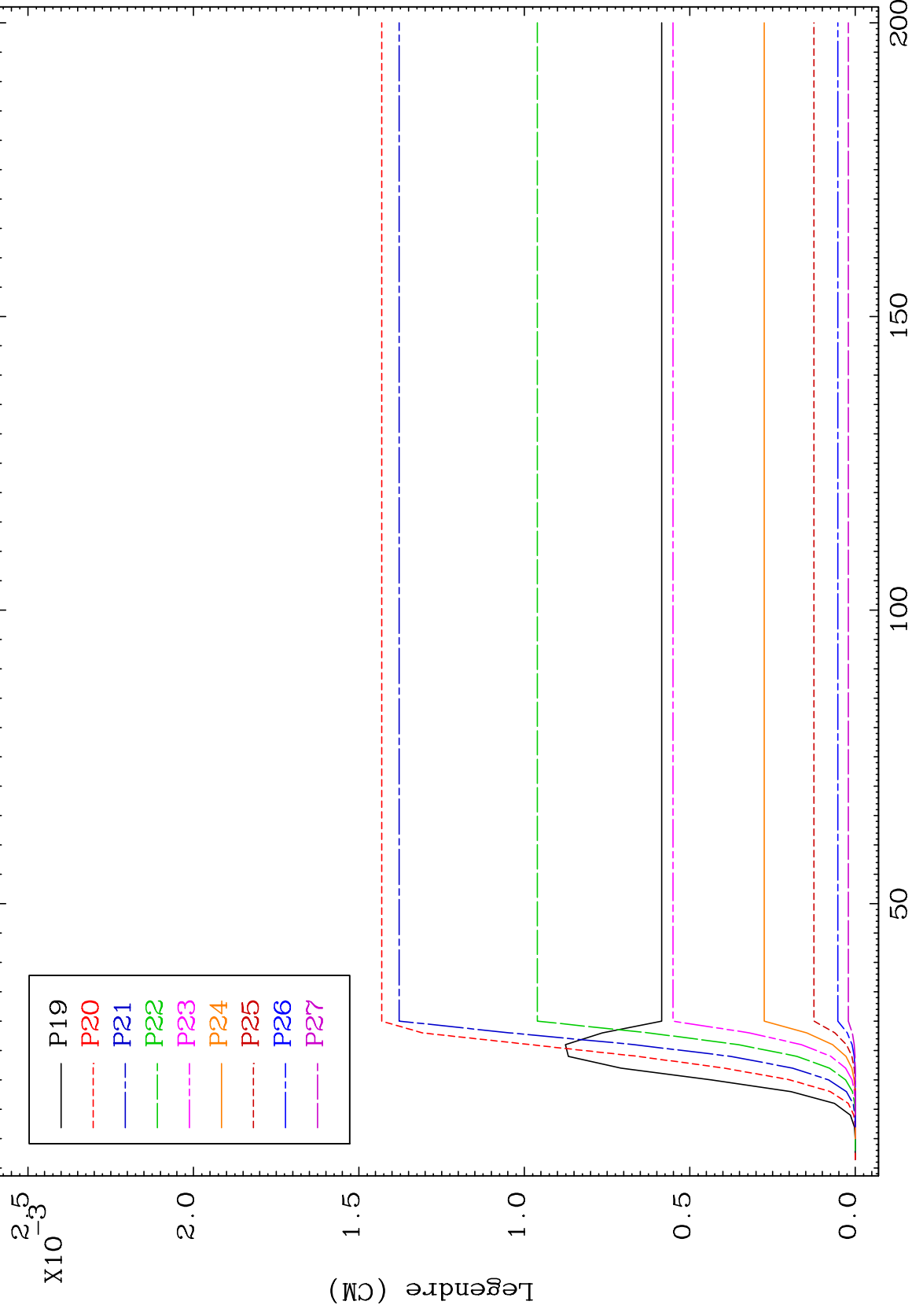
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 68 (n,n') Level
Legendre Coefficients

69-Tm-159



90

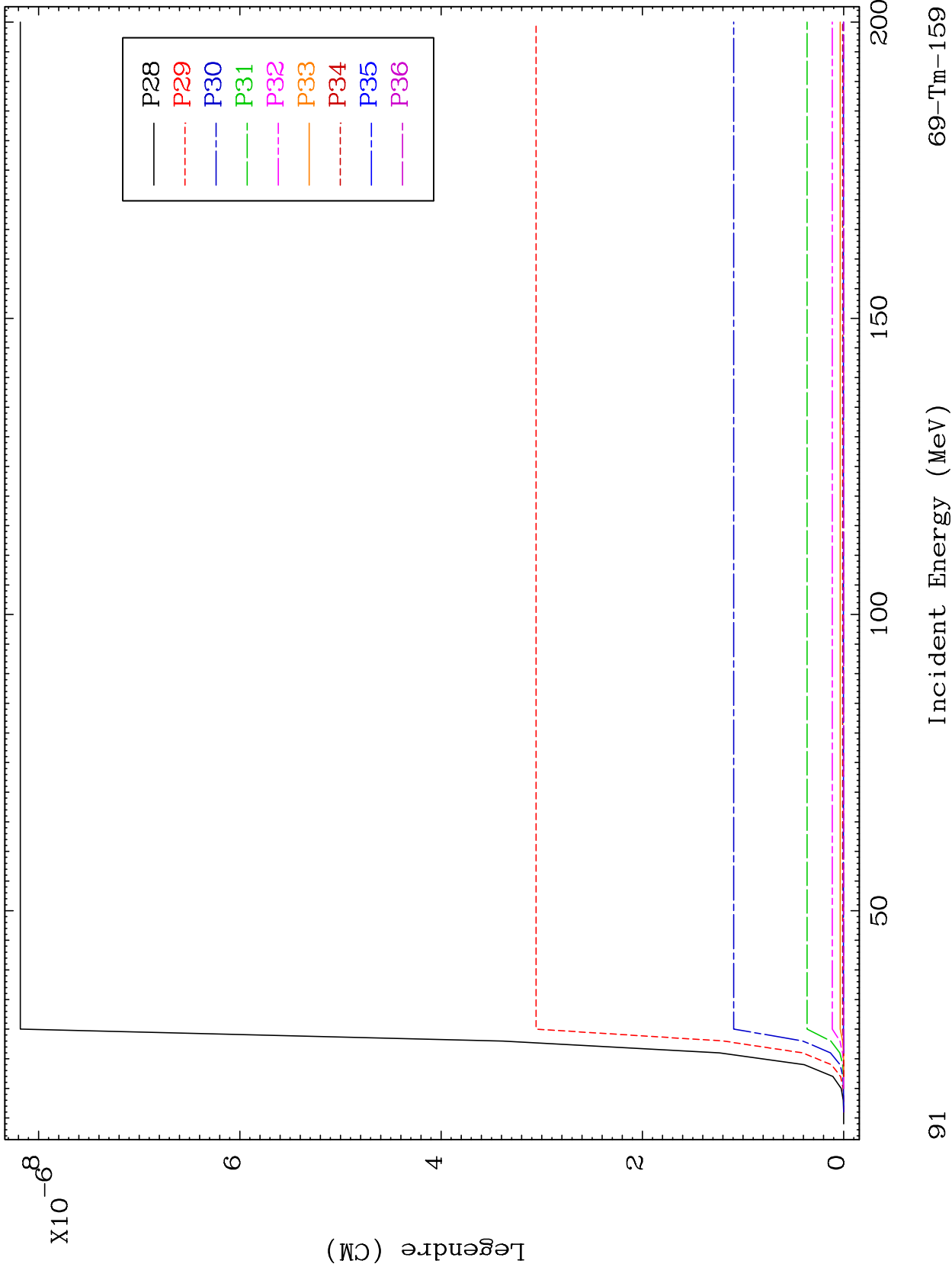
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 68 (n,n') Level
Legendre Coefficients

69-Tm-159



91

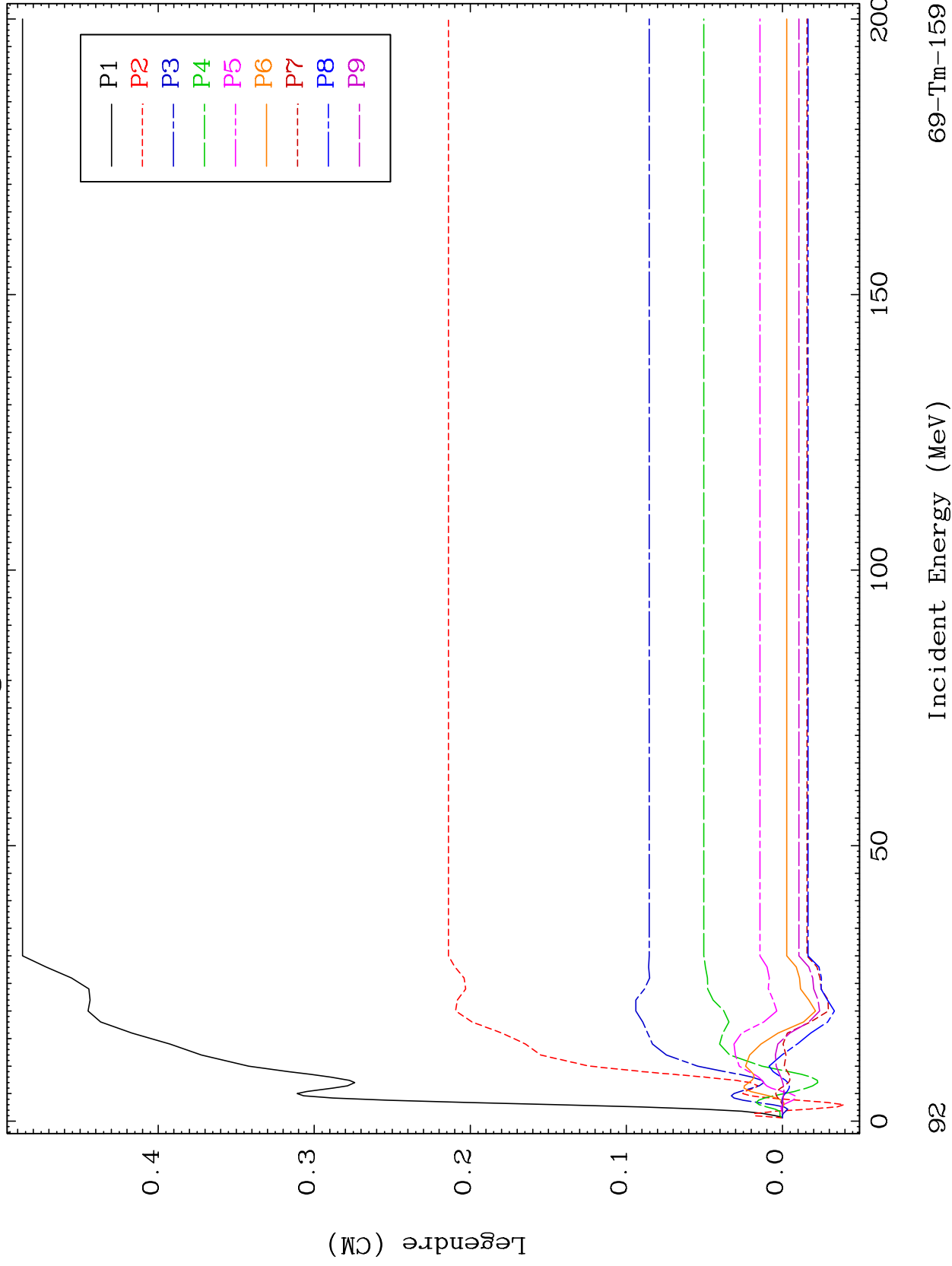
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 69 (n,n') Level
Legendre Coefficients

69-Tm-159



69-Tm-159

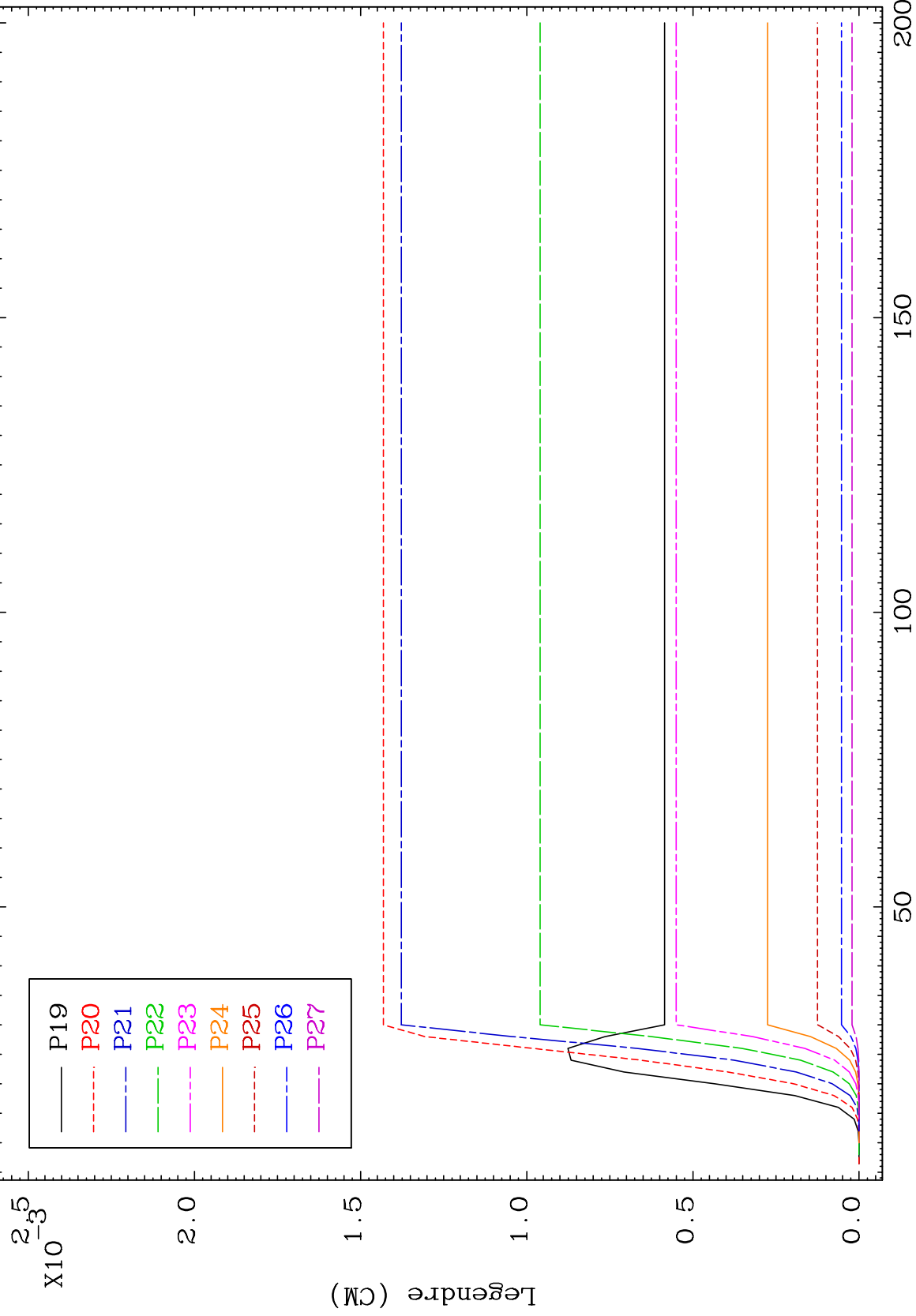
Incident Energy (MeV)

92

MAT 6895

MT= 69 (n,n') Level
Legendre Coefficients

69-Tm-159



94

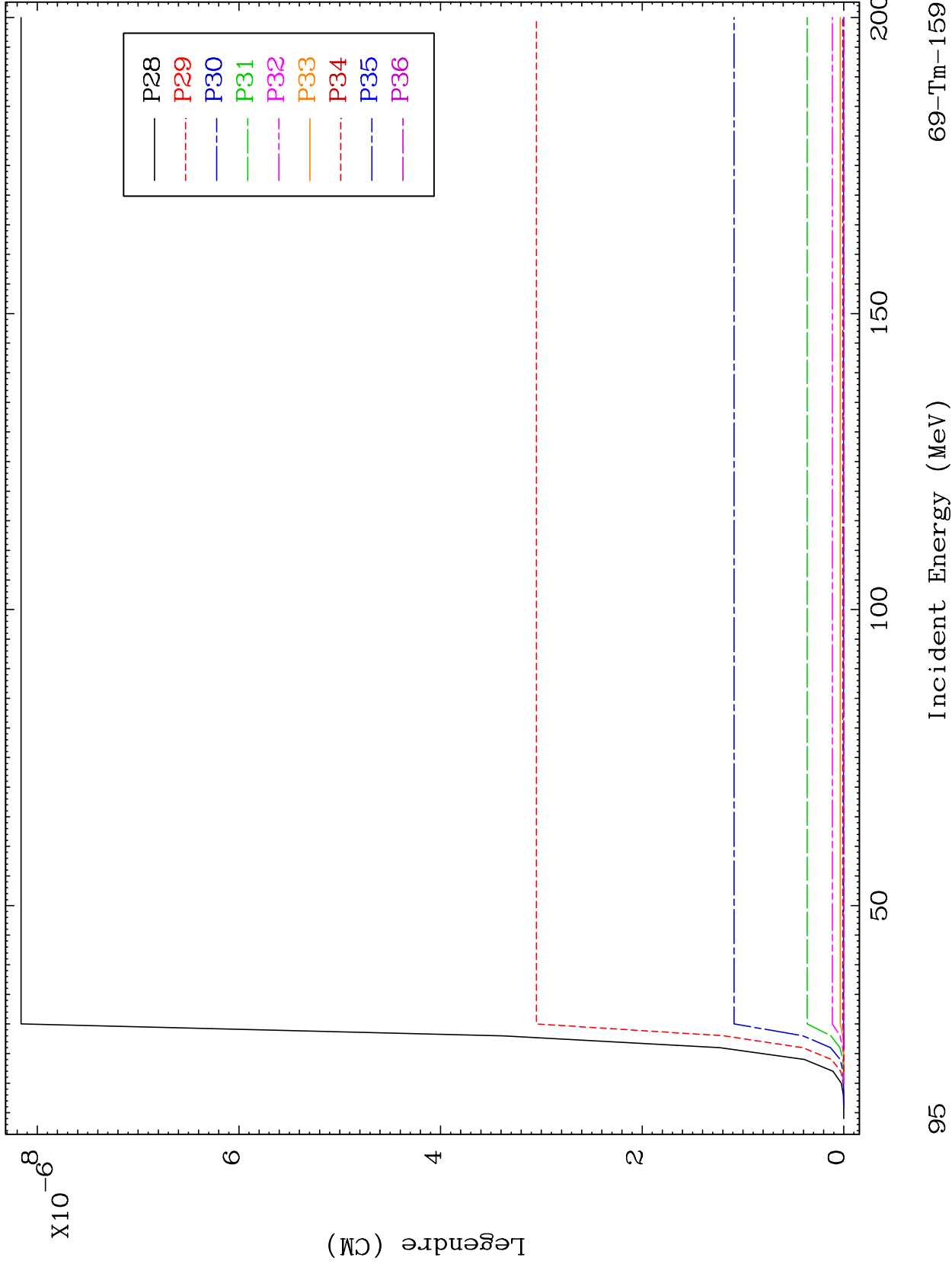
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 69 (n,n') Level
Legendre Coefficients

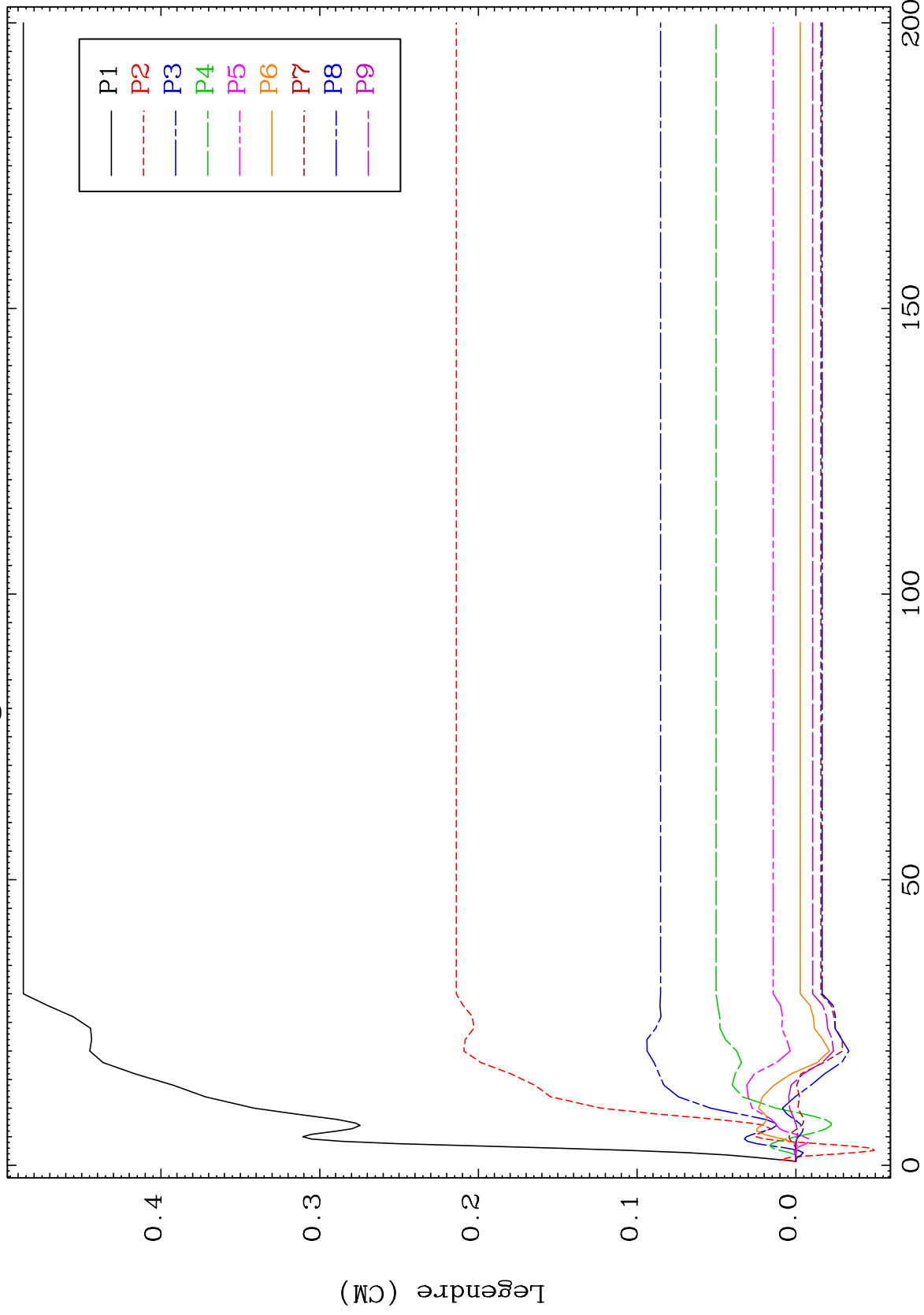
69-Tm-159



MAT 6895

MT= 70 (n,n') Level
Legendre Coefficients

69-Tm-159



96

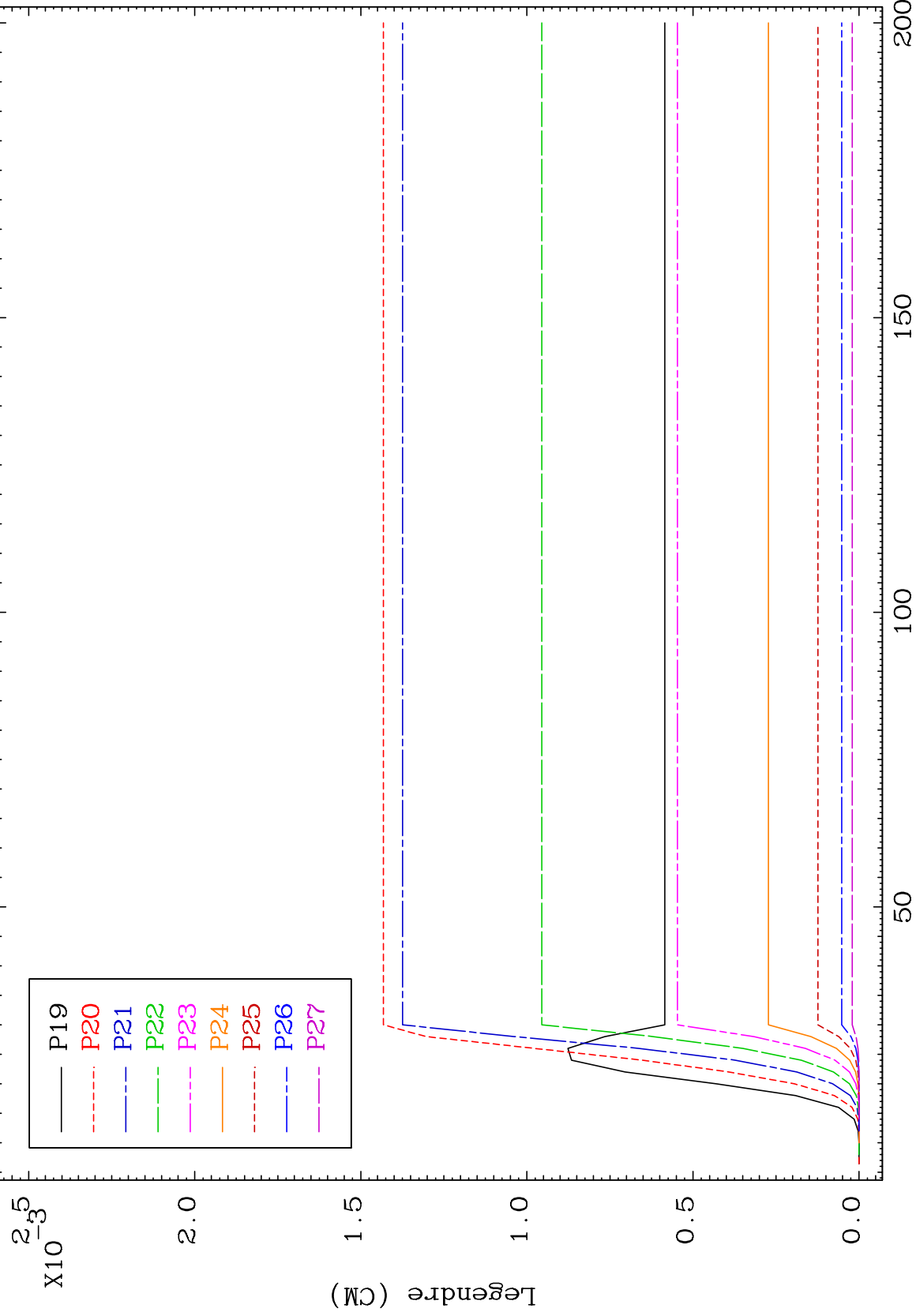
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 70 (n,n') Level
Legendre Coefficients

69-Tm-159



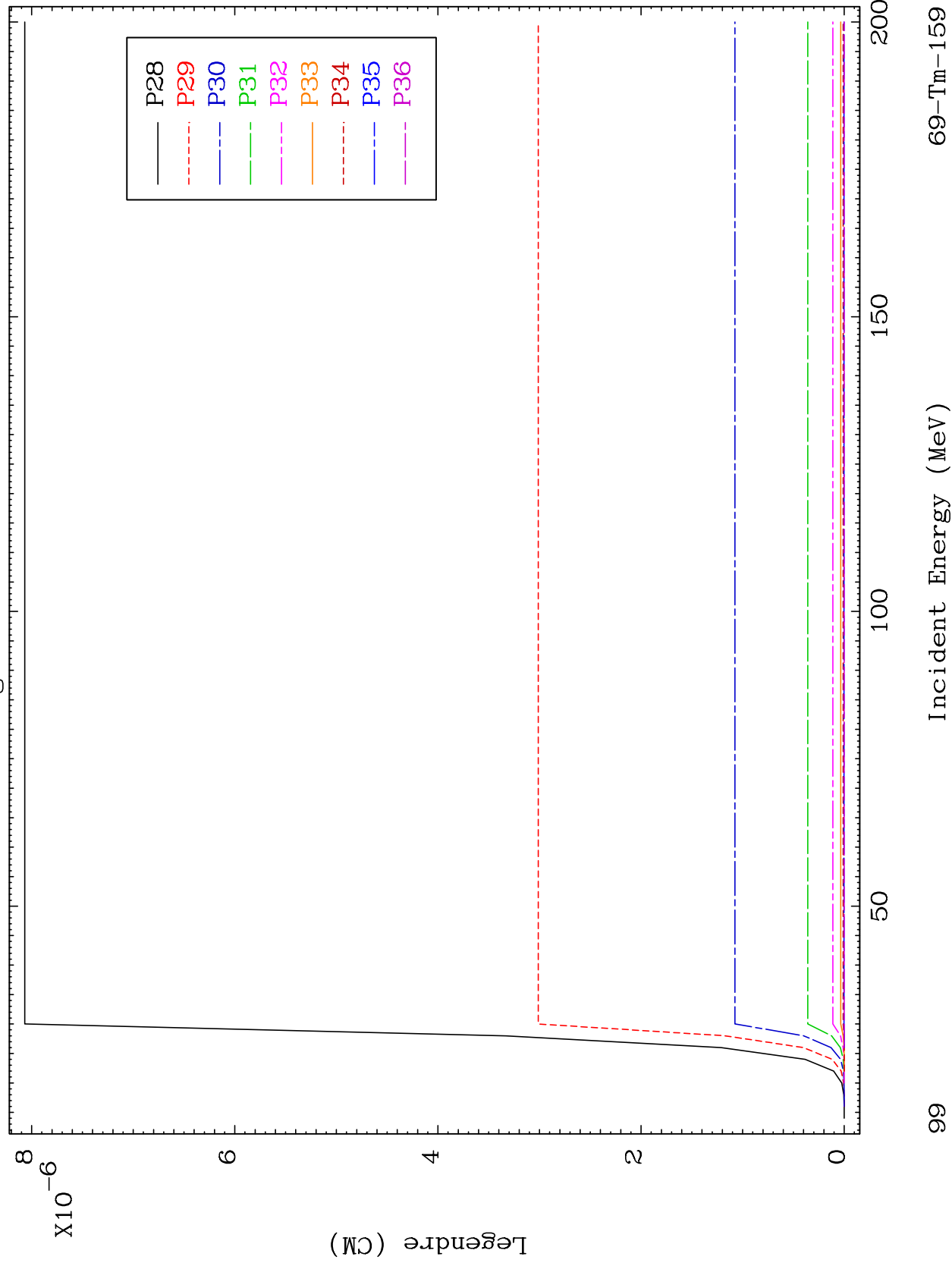
98

69-Tm-159

MAT 6895

MT= 70 (n,n') Level
Legendre Coefficients

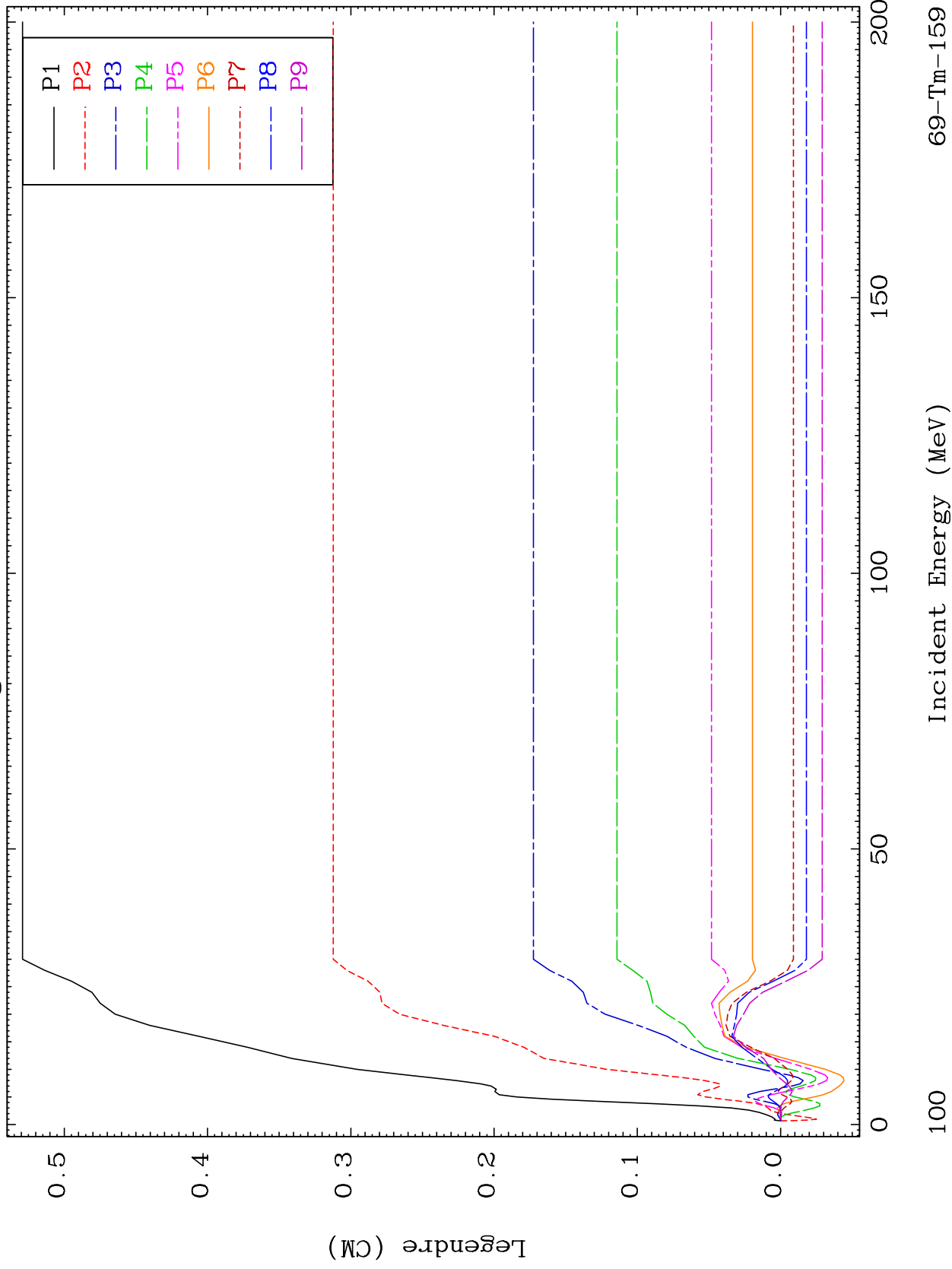
69-Tm-159



MAT 6895

MT= 71 (n,n') Level
Legendre Coefficients

69-Tm-159



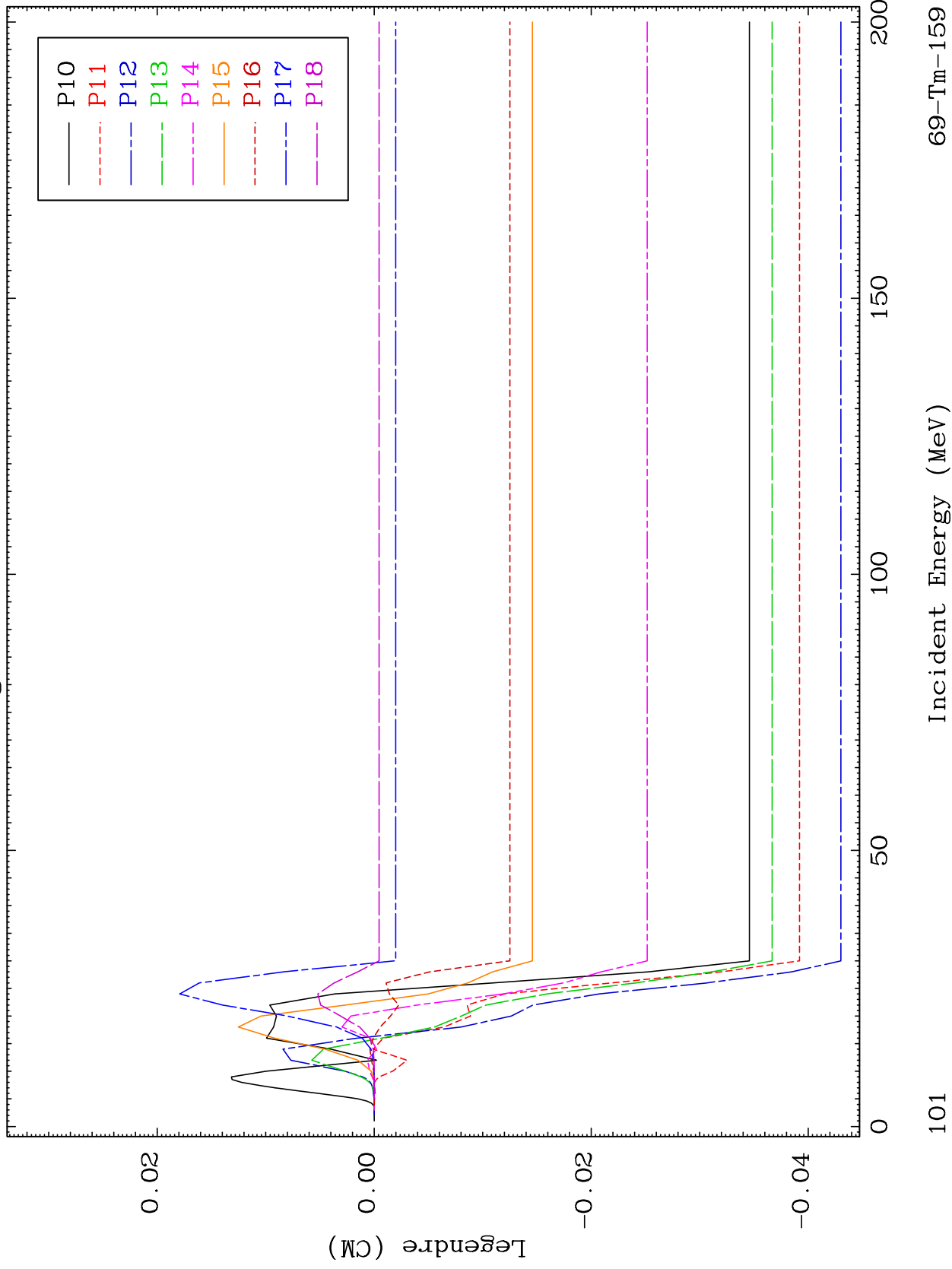
69-Tm-159

Incident Energy (MeV)

MAT 6895

MT= 71 (n,n') Level
Legendre Coefficients

69-Tm-159



101

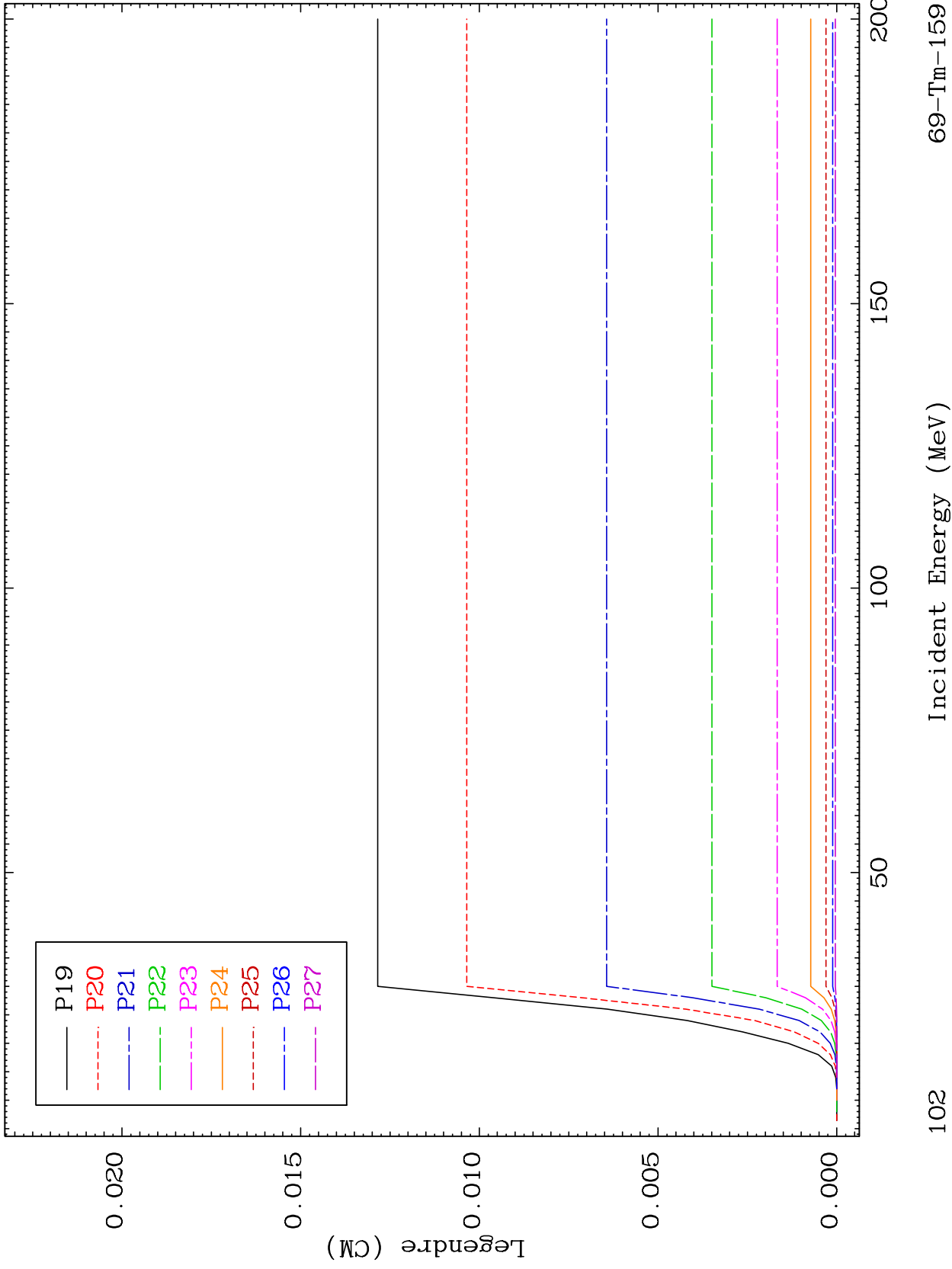
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 71 (n,n') Level
Legendre Coefficients

69-Tm-159



102

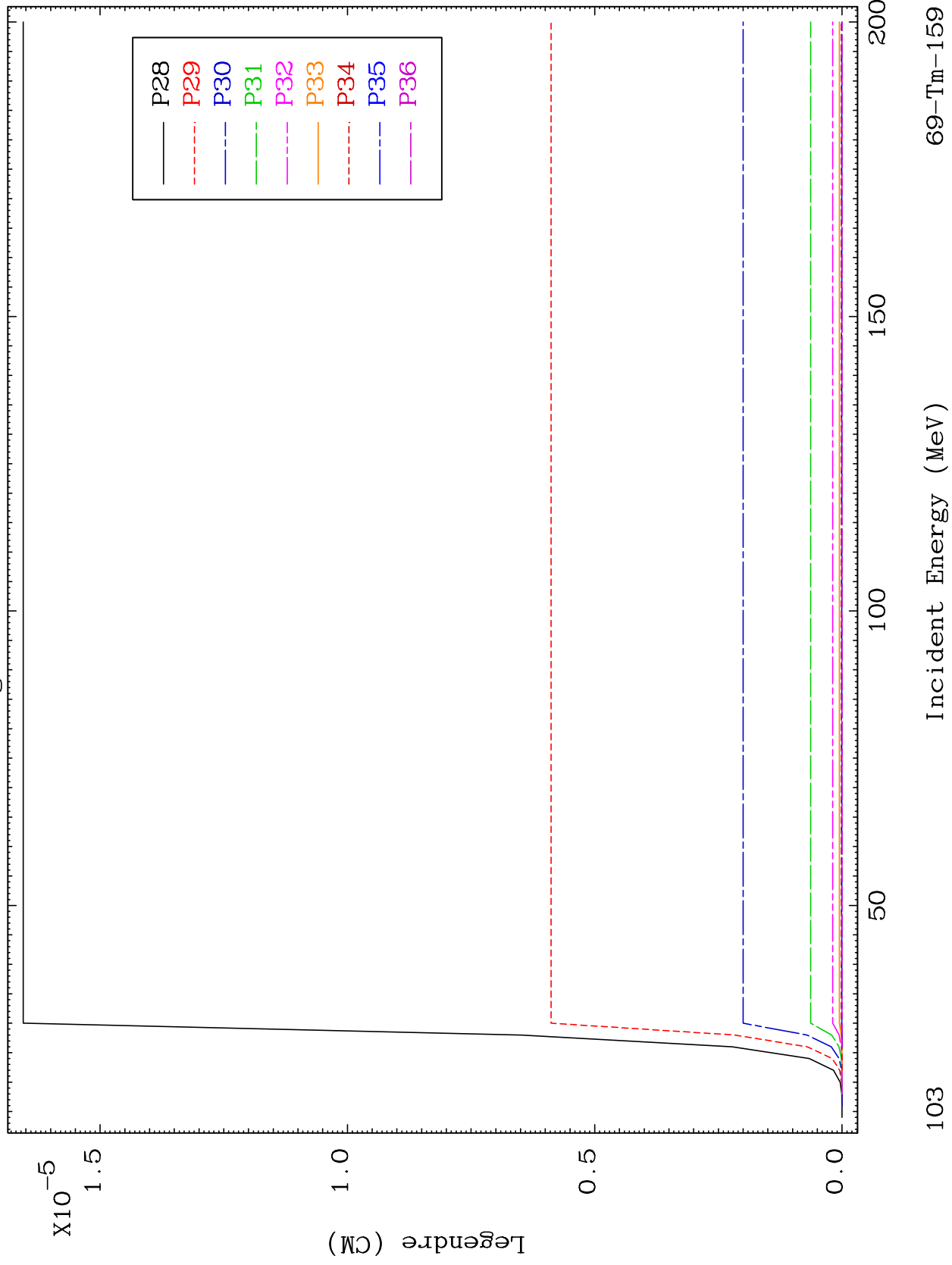
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 71 (n,n') Level
Legendre Coefficients

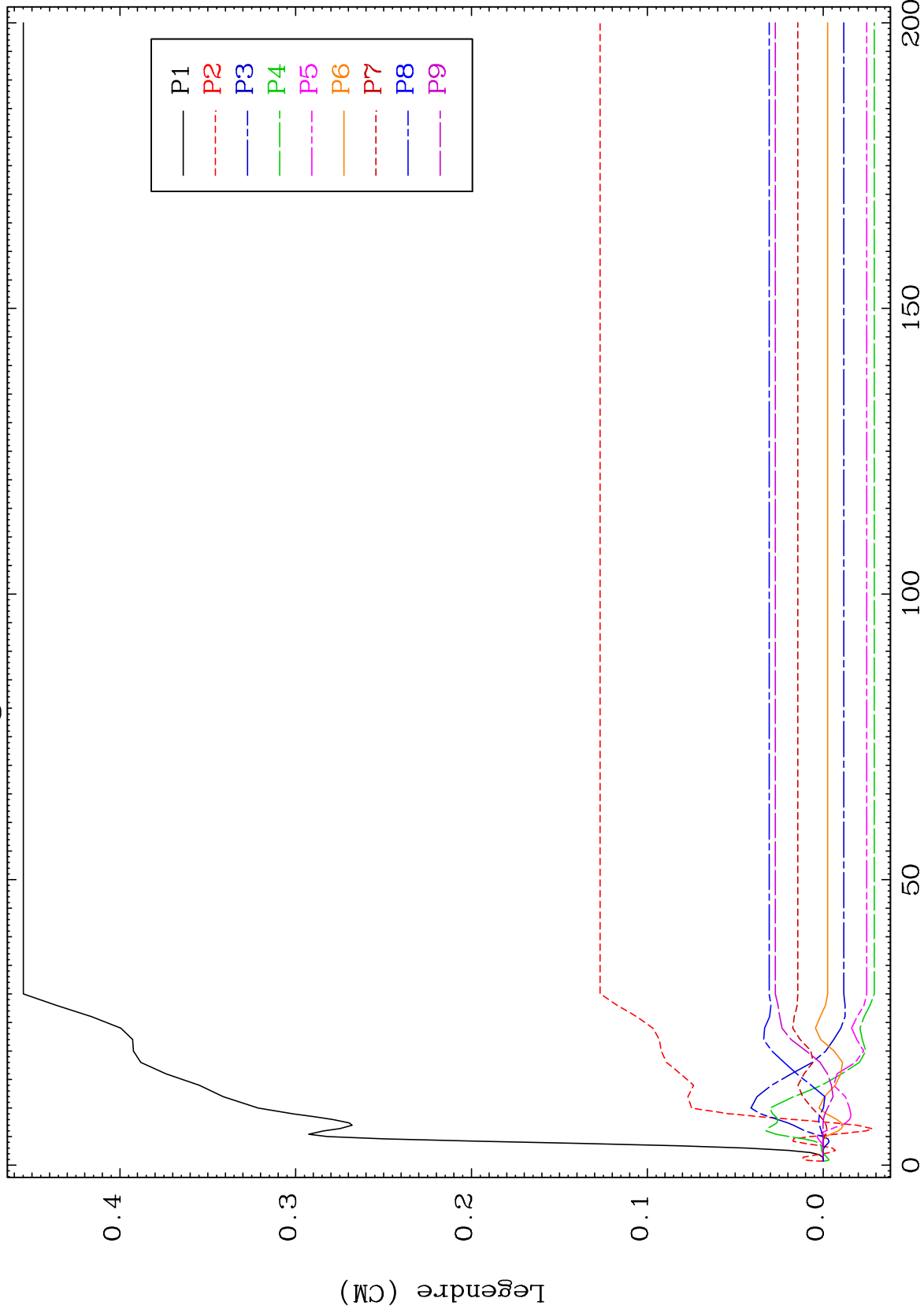
69-Tm-159



MAT 6895

MT= 72 (n,n') Level
Legendre Coefficients

69-Tm-159



69-Tm-159

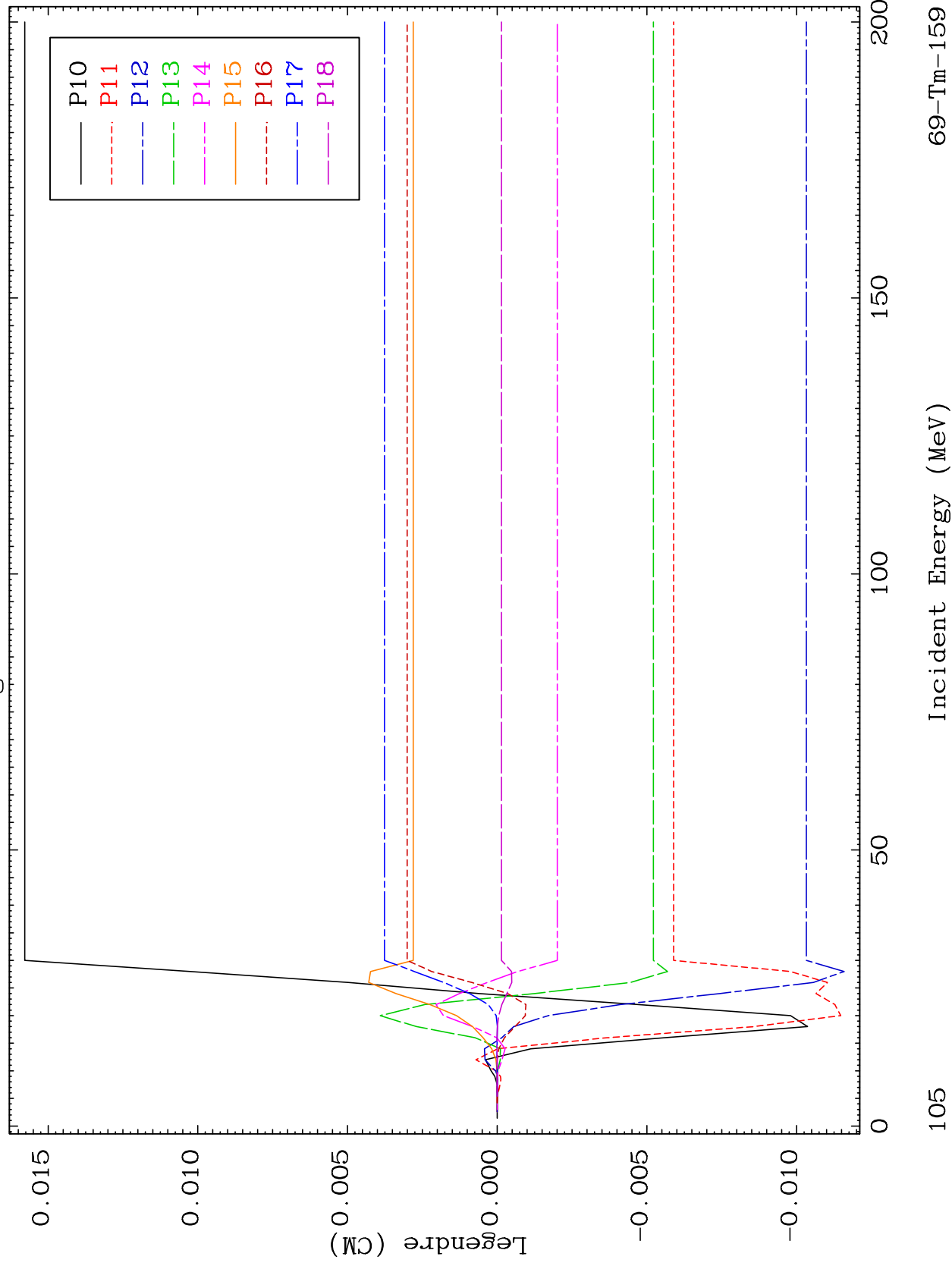
Incident Energy (MeV)

104

MAT 6895

MT= 72 (n,n') Level
Legendre Coefficients

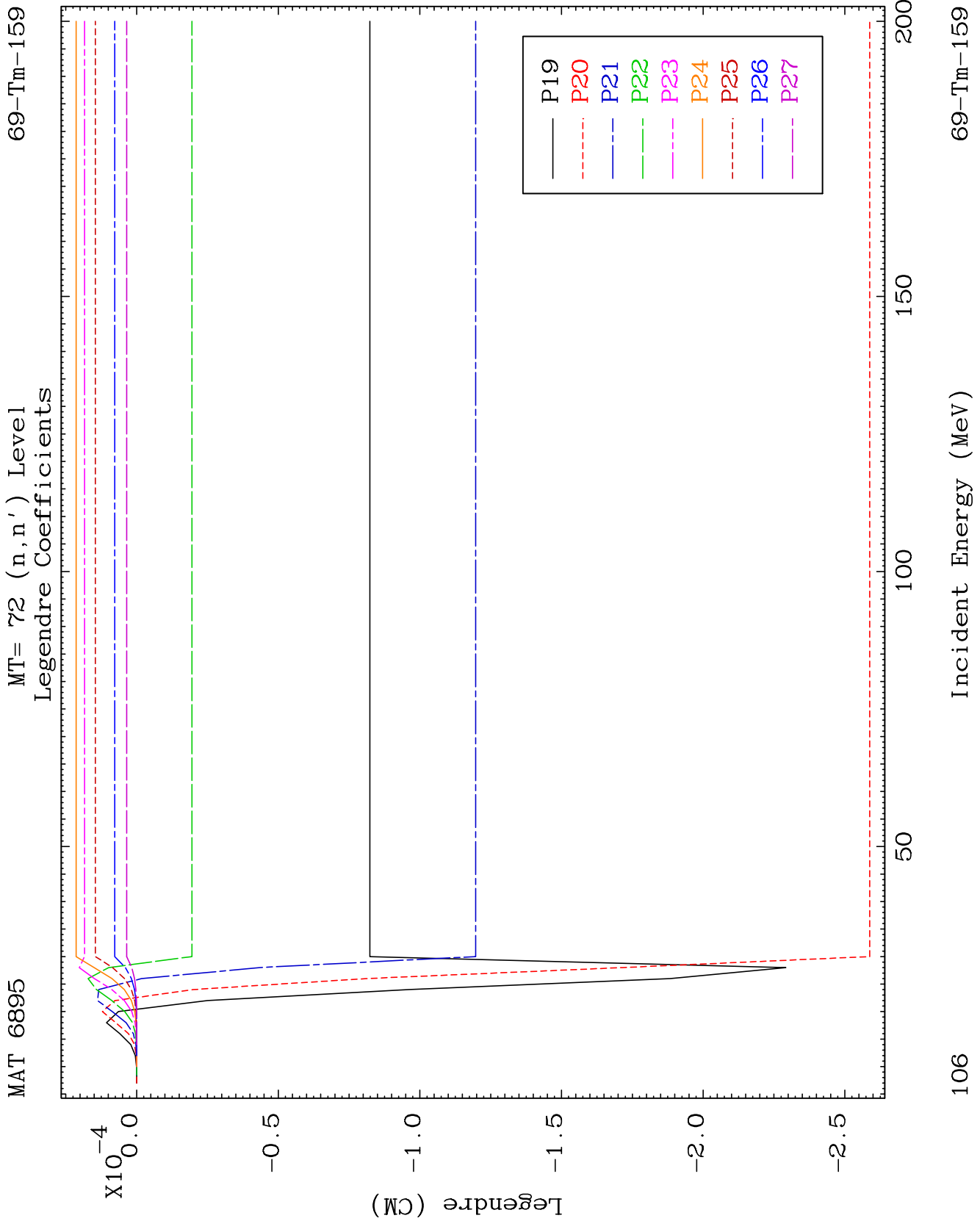
69-Tm-159



69-Tm-159

Incident Energy (MeV)

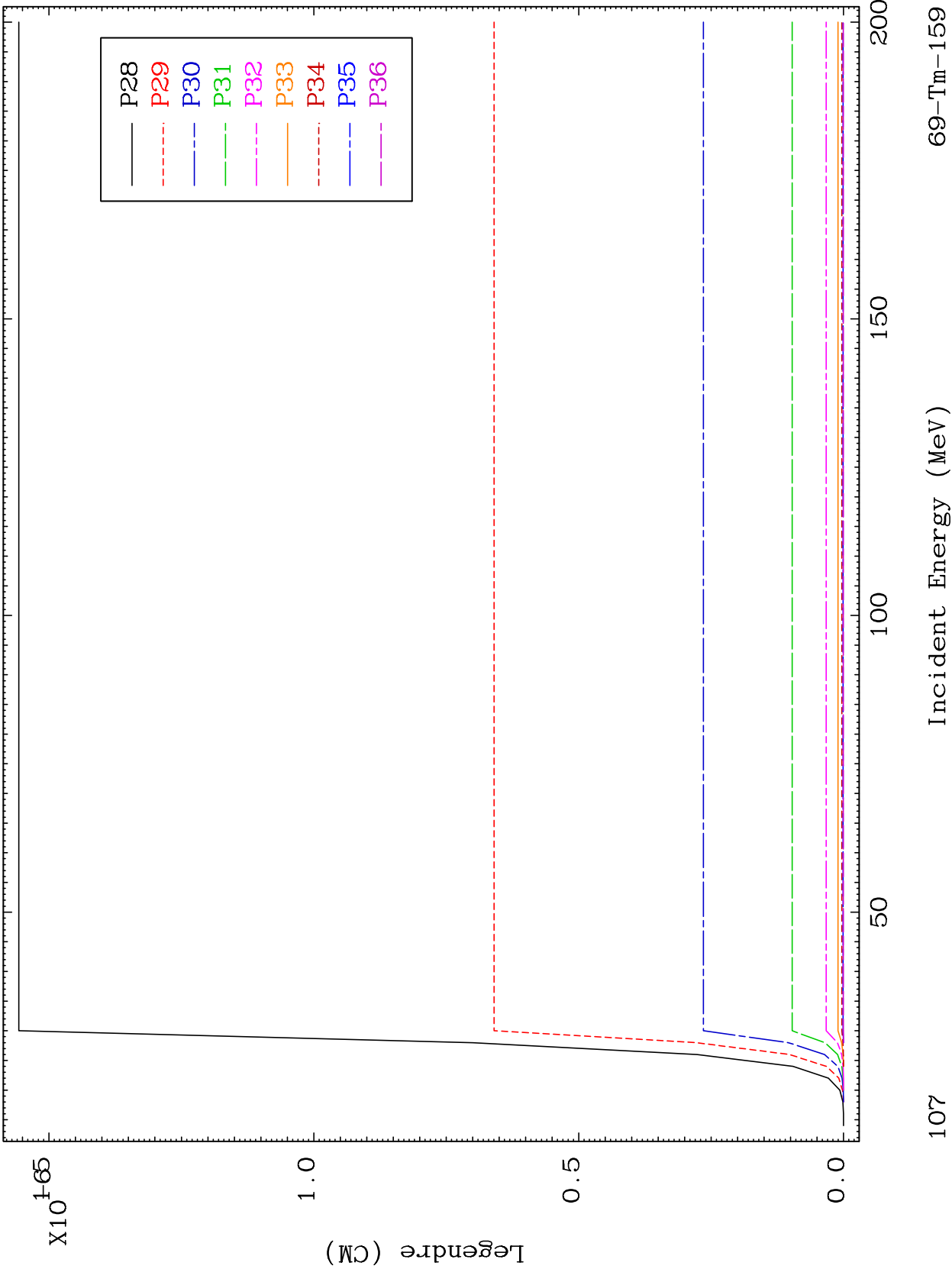
105

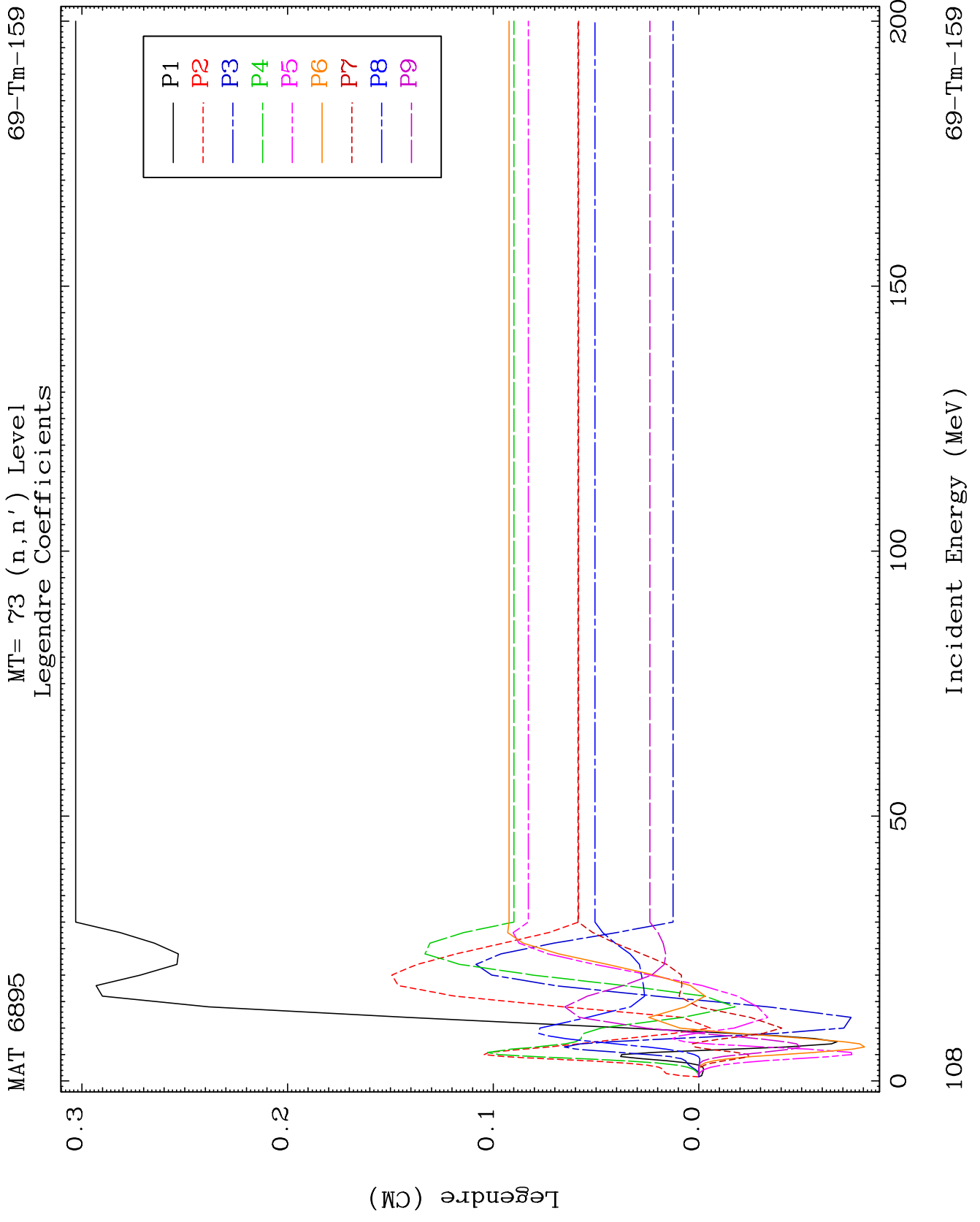


MAT 6895

MT= 72 (n,n') Level
Legendre Coefficients

69-Tm-159

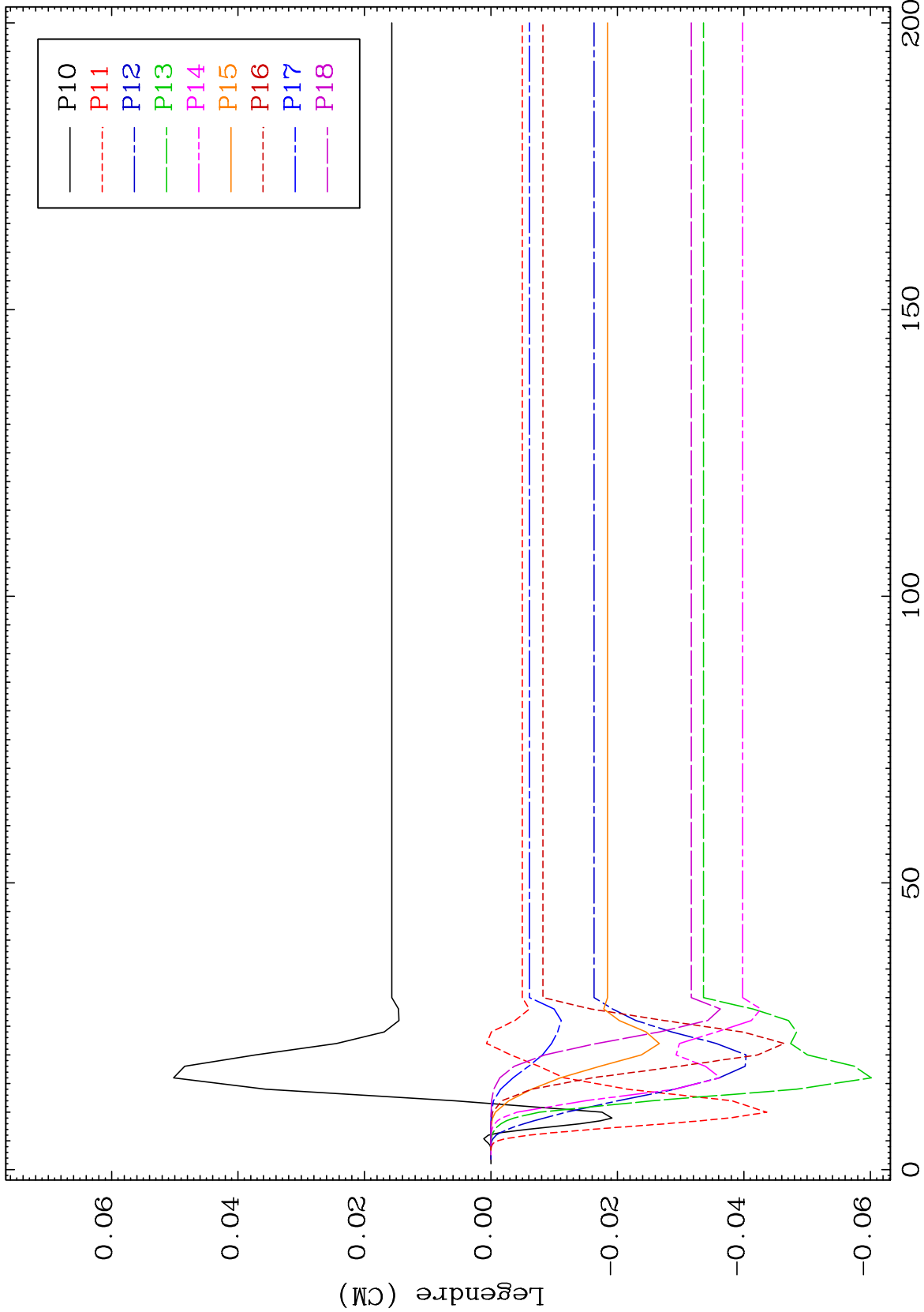




MAT 6895

MT= 73 (n,n') Level
Legendre Coefficients

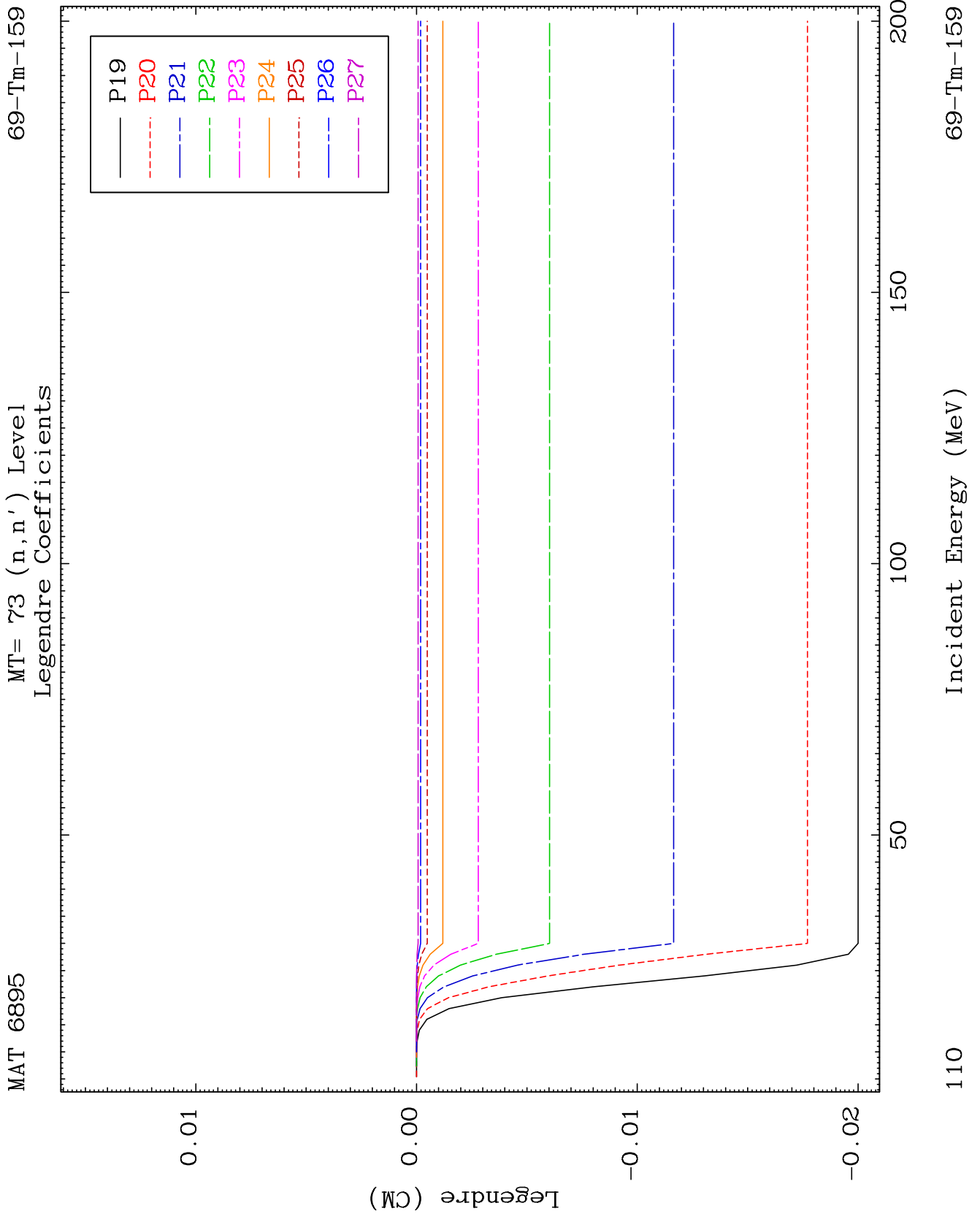
69-Tm-159

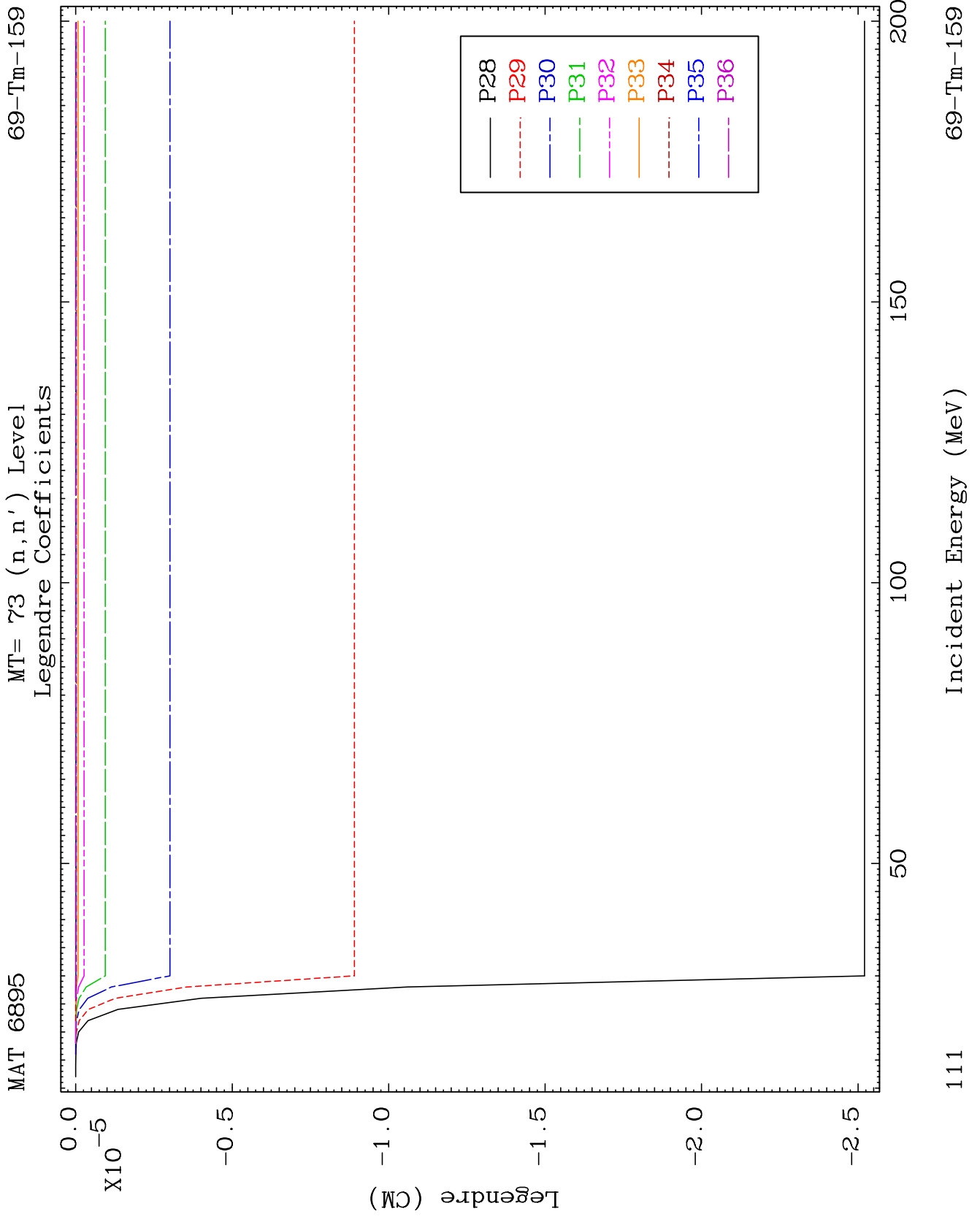


109

Incident Energy (MeV)

69-Tm-159

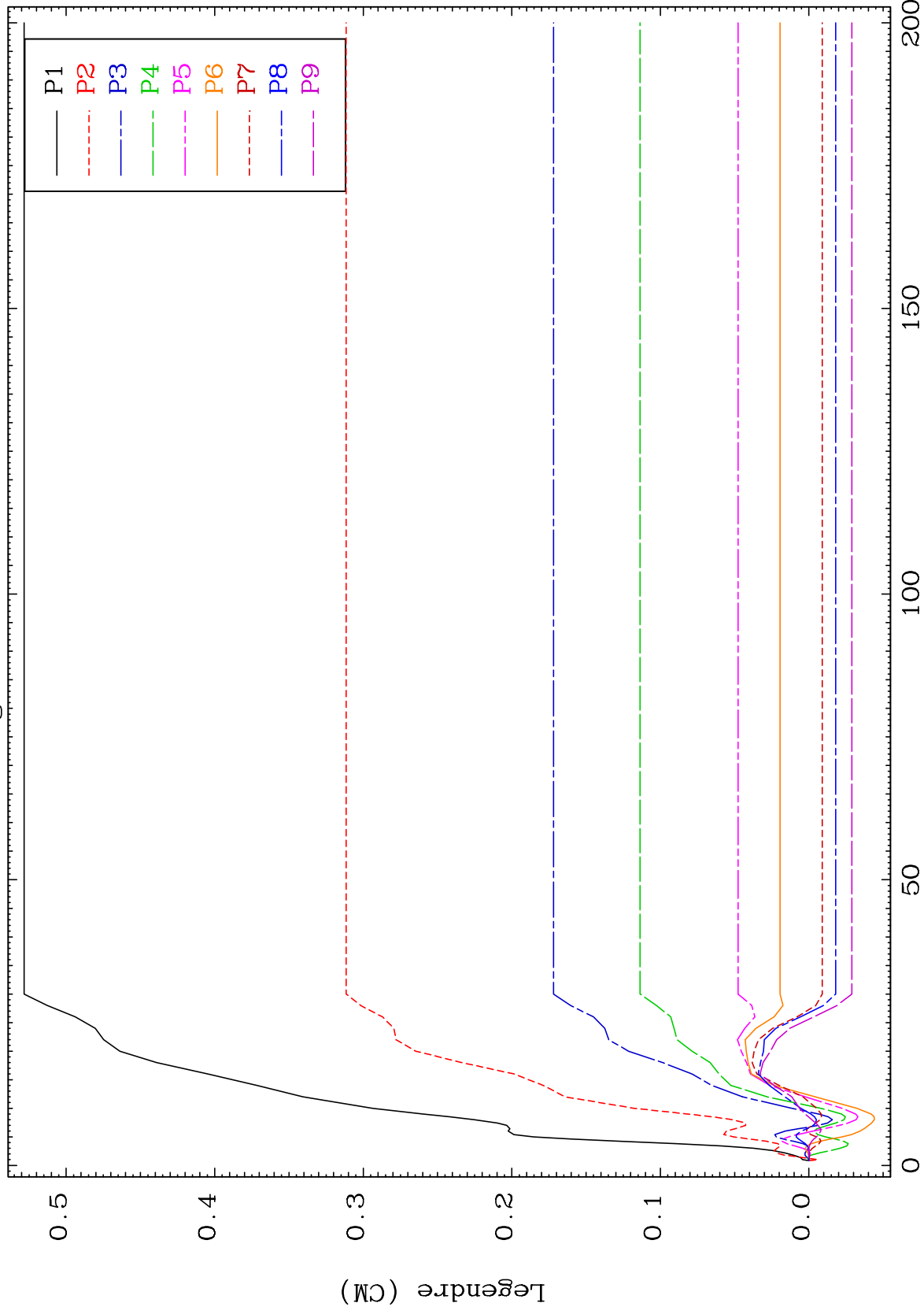




MAT 6895

MT= 74 (n,n') Level
Legendre Coefficients

69-Tm-159



112

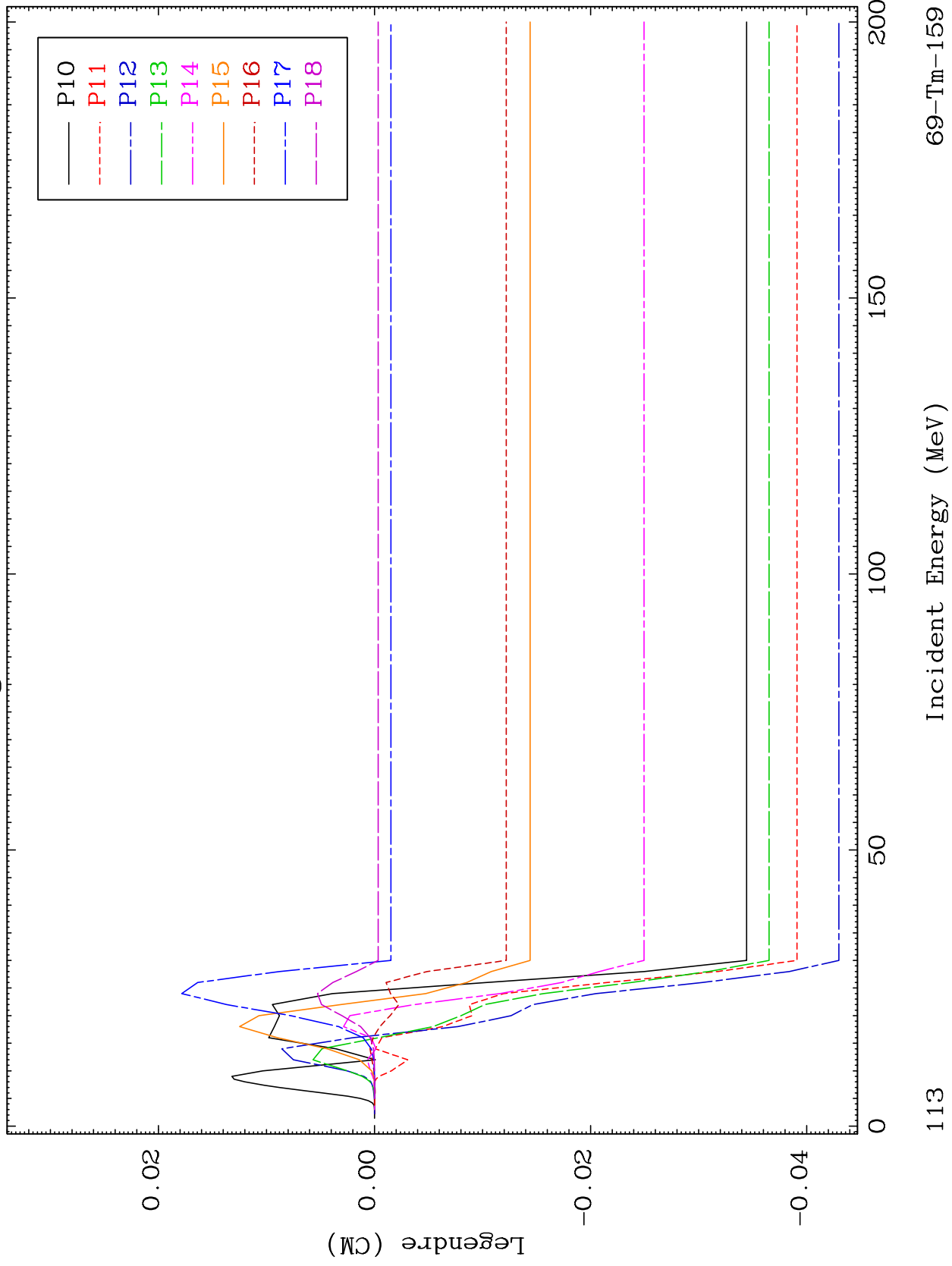
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 74 (n,n') Level
Legendre Coefficients

69-Tm-159



113

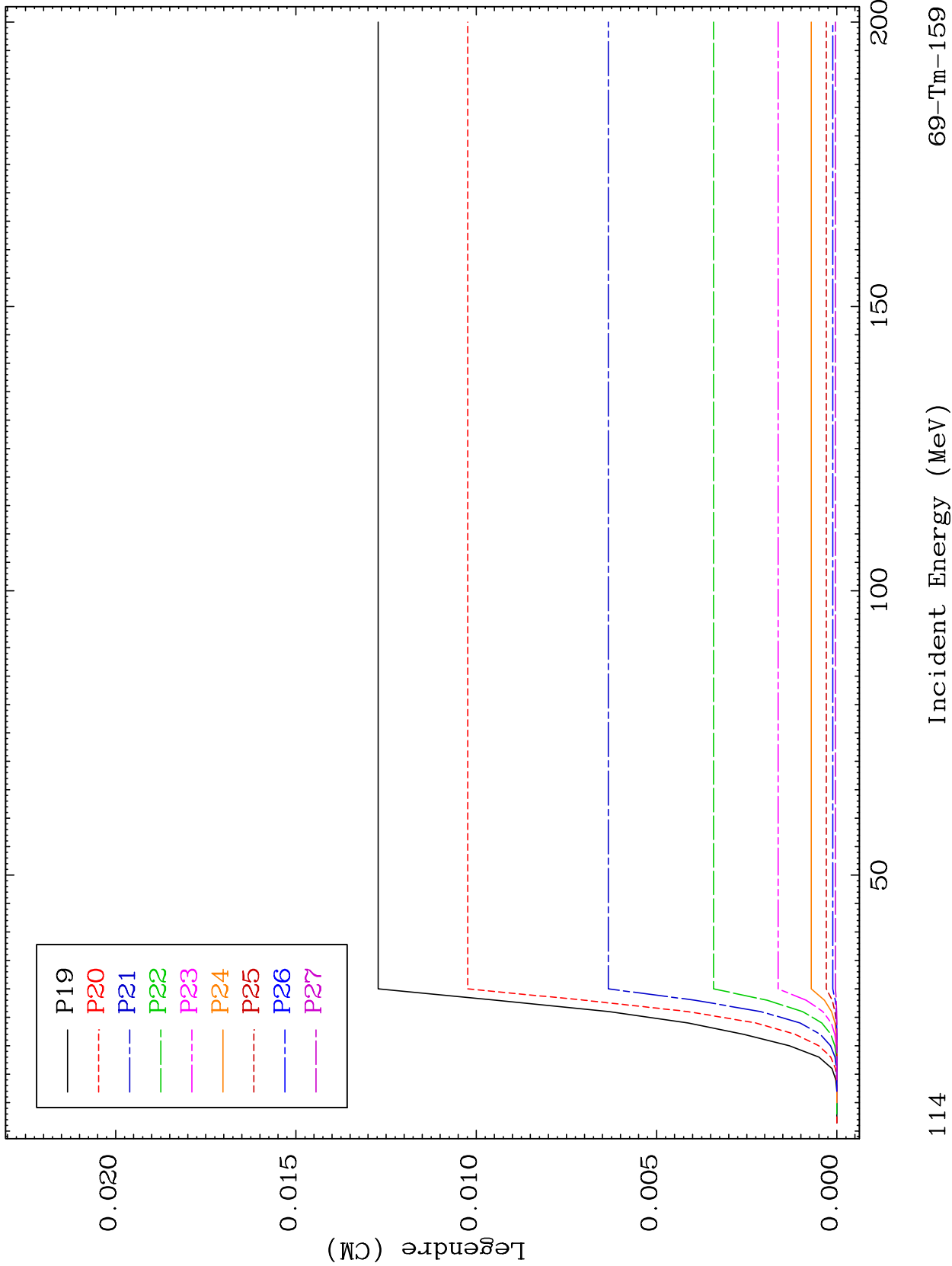
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 74 (n,n') Level
Legendre Coefficients

69-Tm-159



114

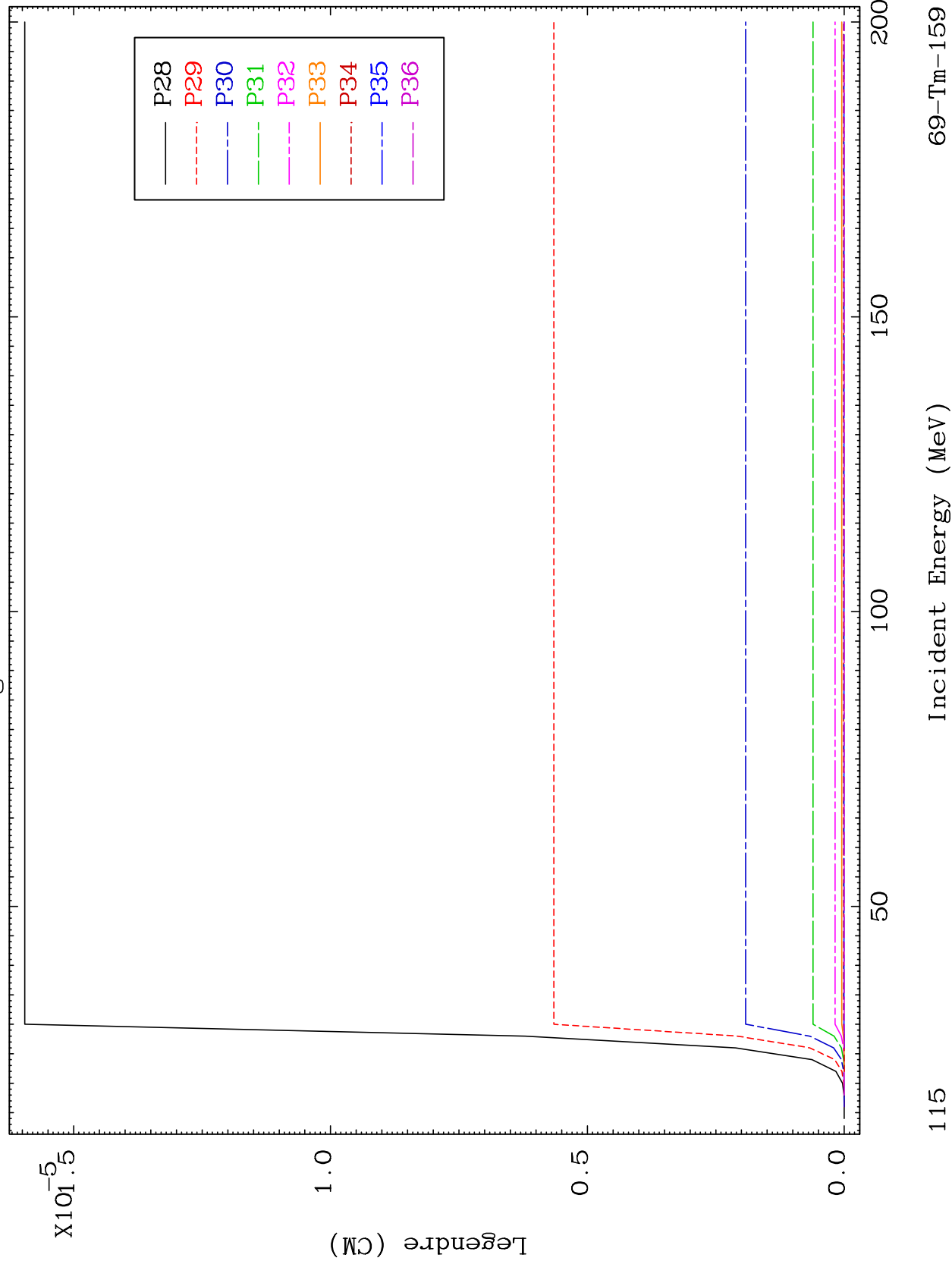
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 74 (n,n') Level
Legendre Coefficients

69-Tm-159



115

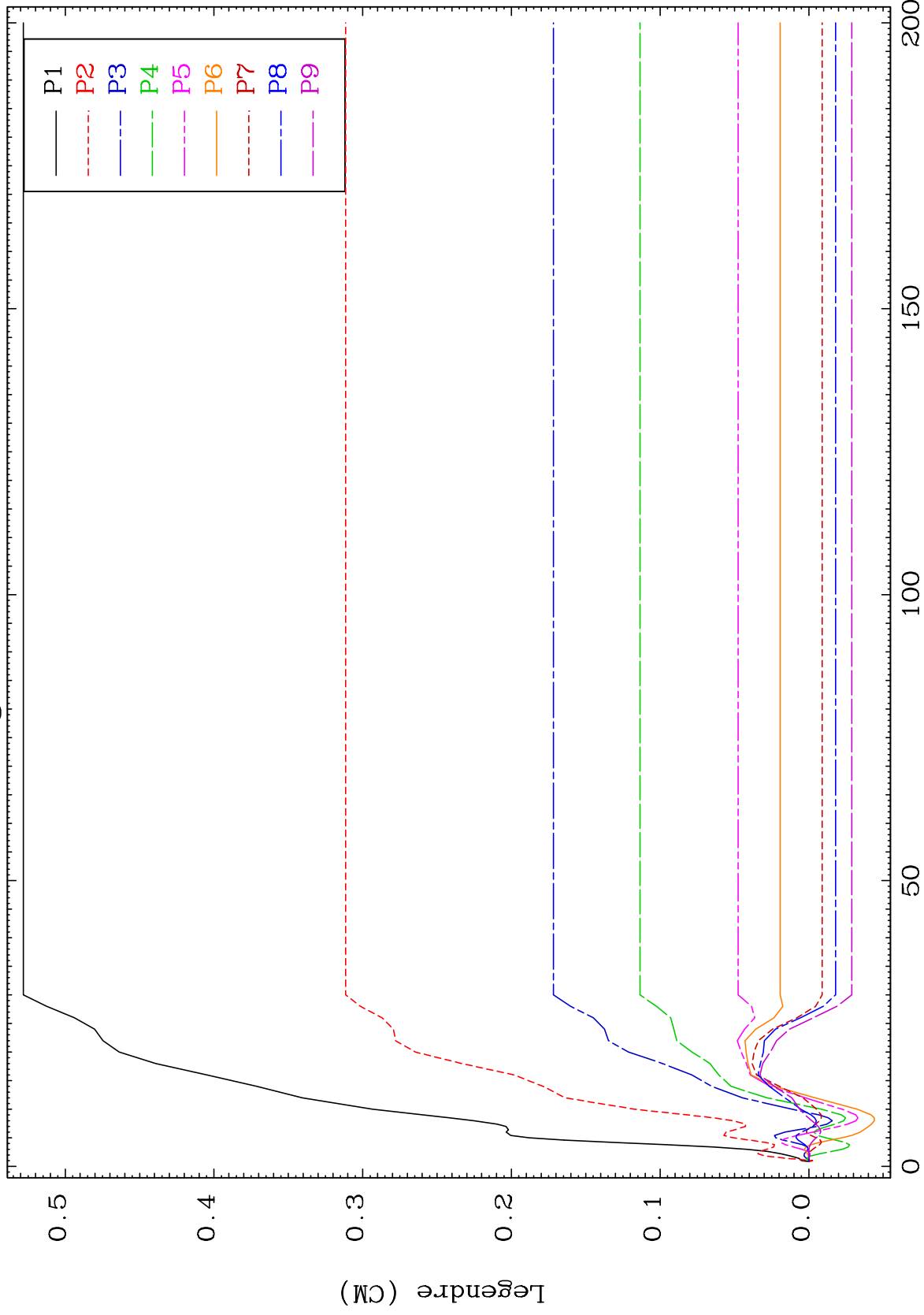
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 75 (n,n') Level
Legendre Coefficients

69-Tm-159



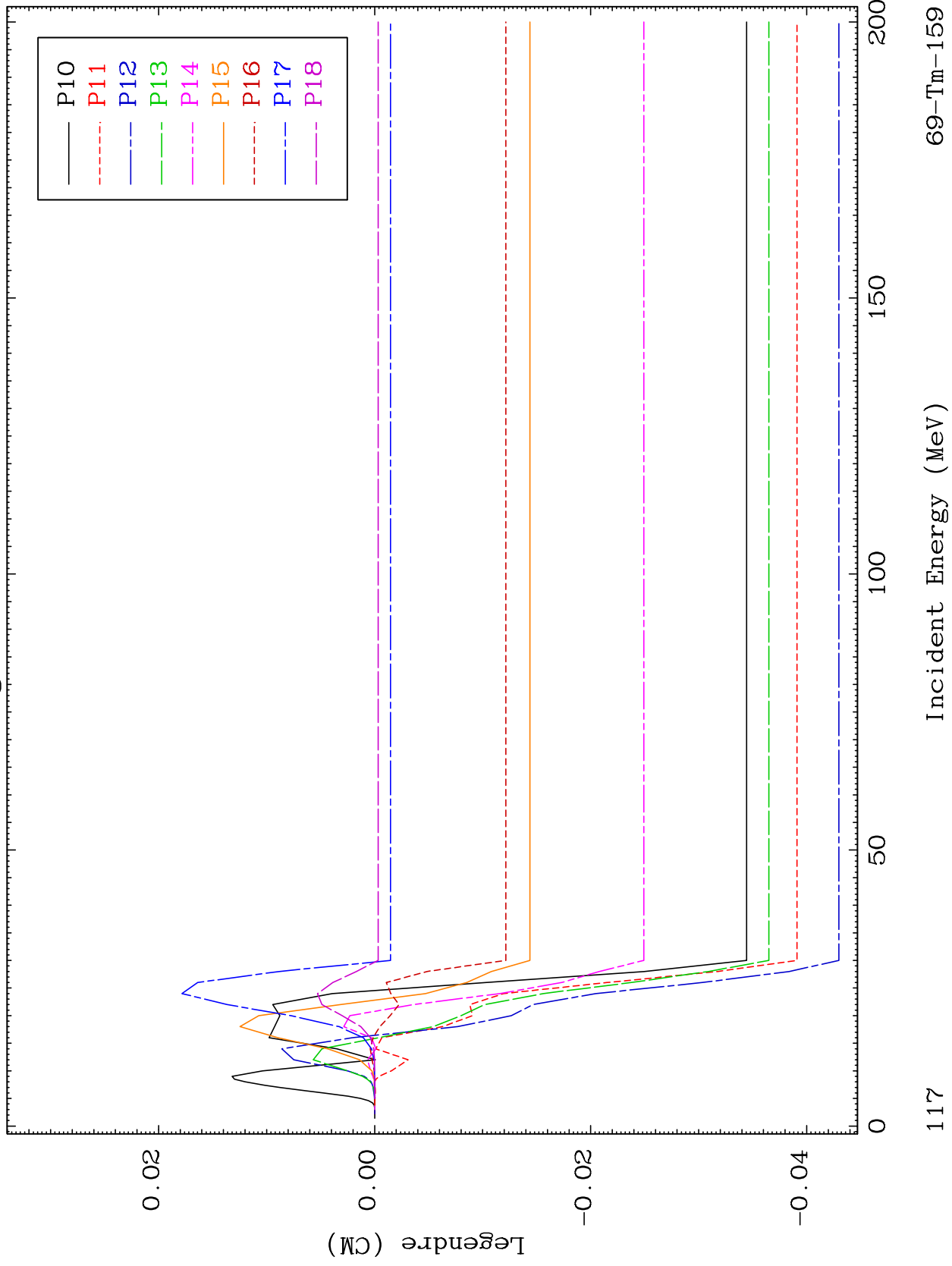
116

69-Tm-159

MAT 6895

MT= 75 (n,n') Level
Legendre Coefficients

69-Tm-159



117

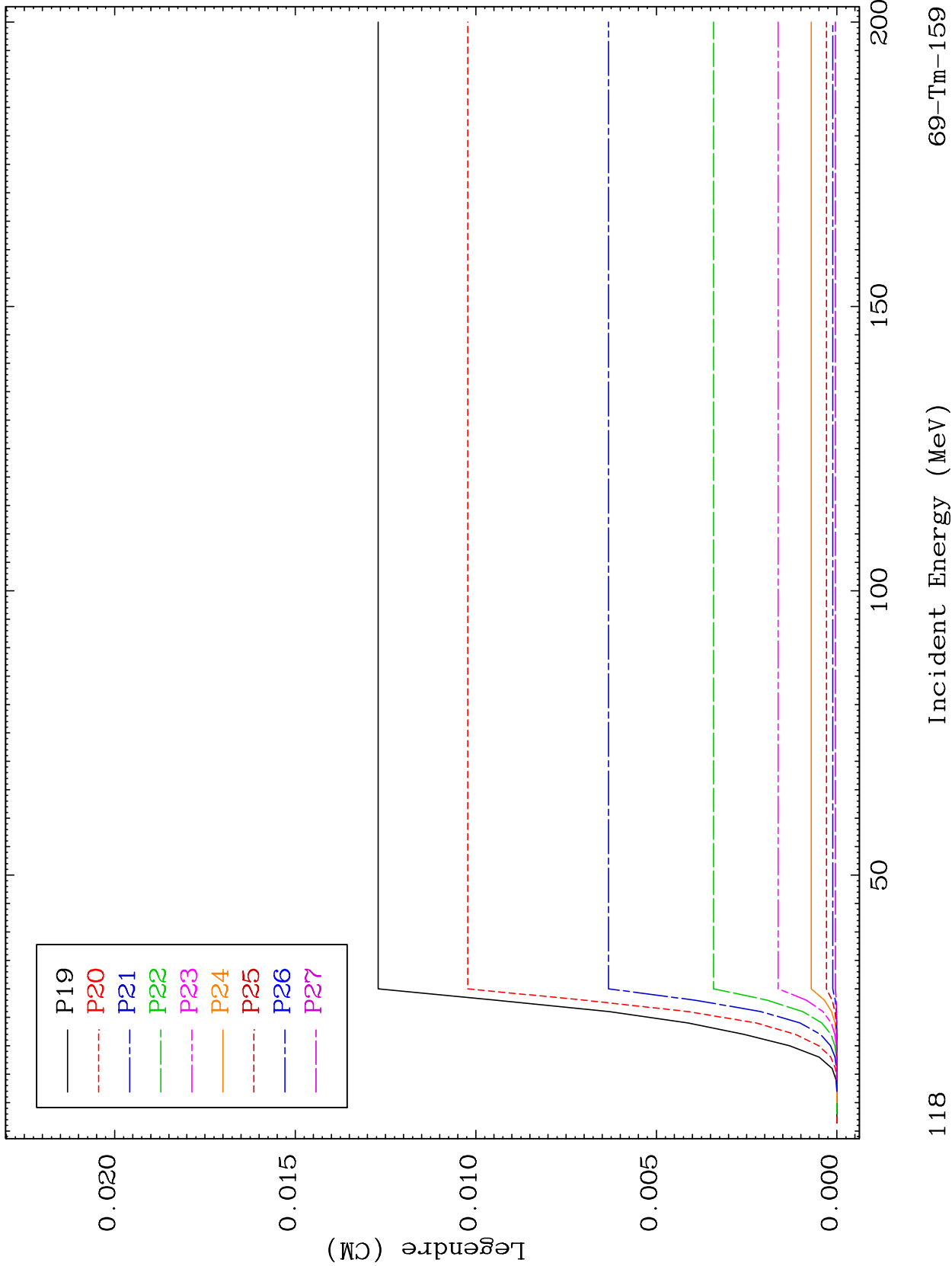
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 75 (n,n') Level
Legendre Coefficients

69-Tm-159



118

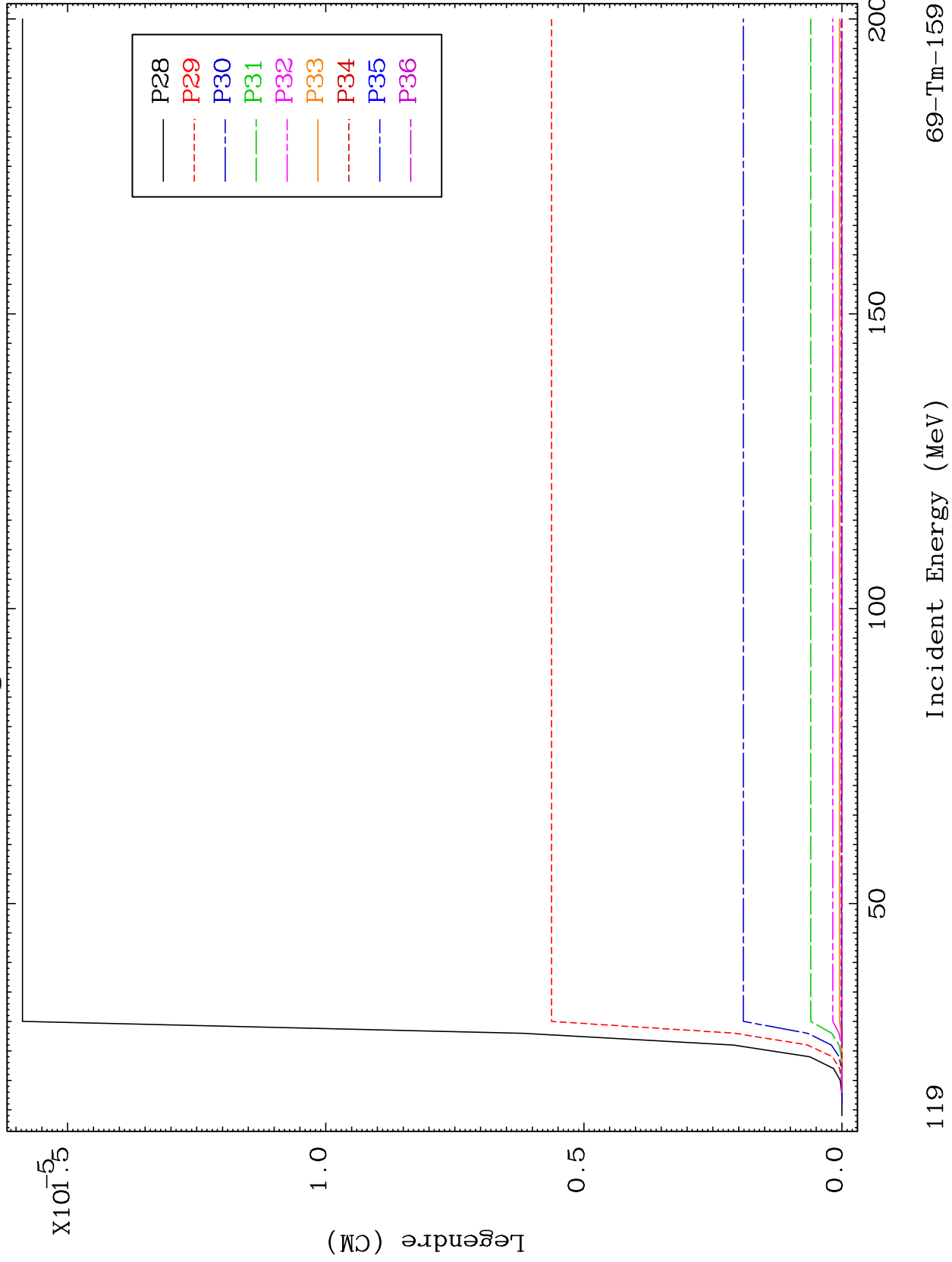
Incident Energy (MeV)

69-Tm-159

MAT 6895

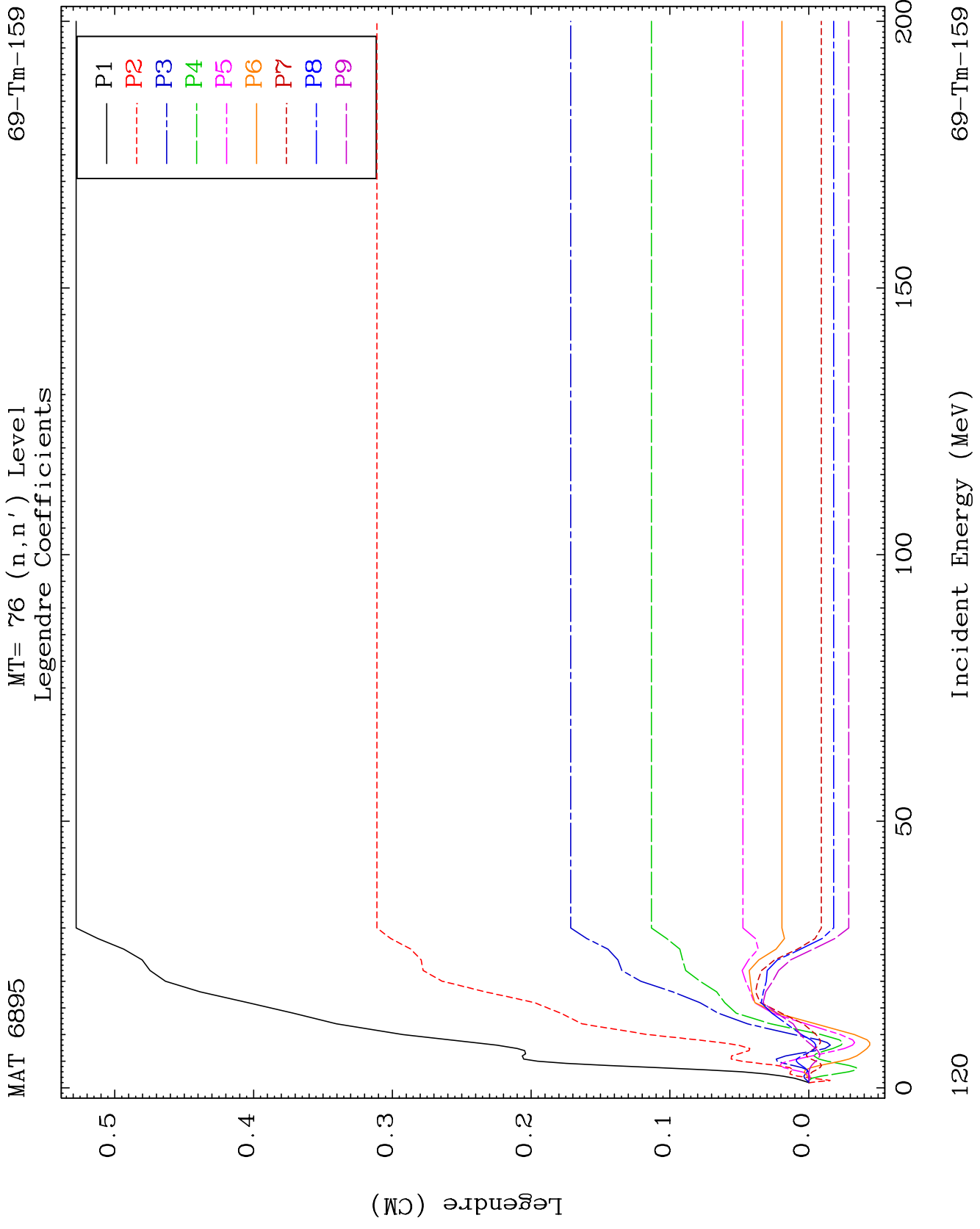
MT= 75 (n,n') Level
Legendre Coefficients

69-Tm-159



119

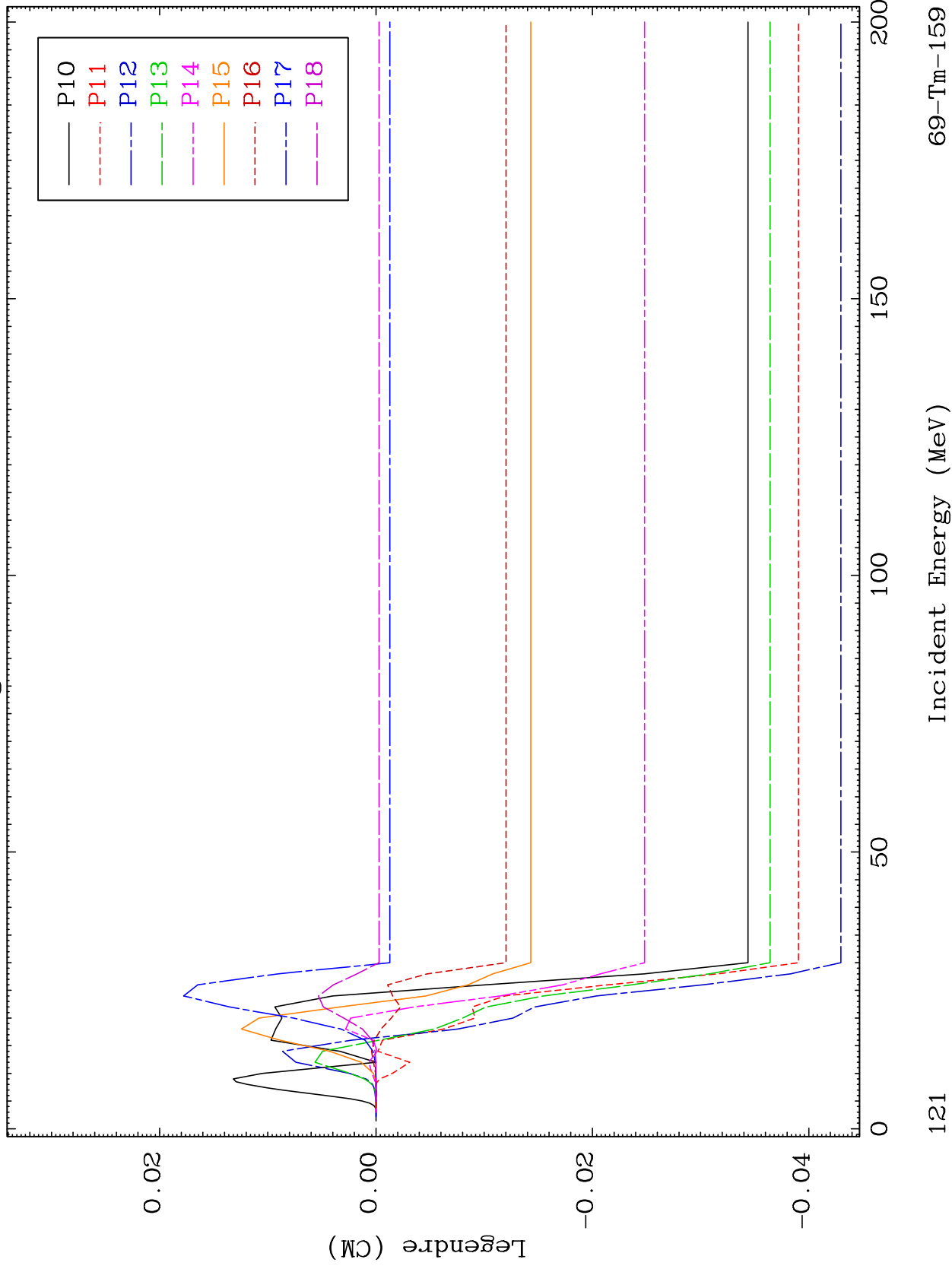
69-Tm-159



MAT 6895

MT= 76 (n,n') Level
Legendre Coefficients

69-Tm-159



121

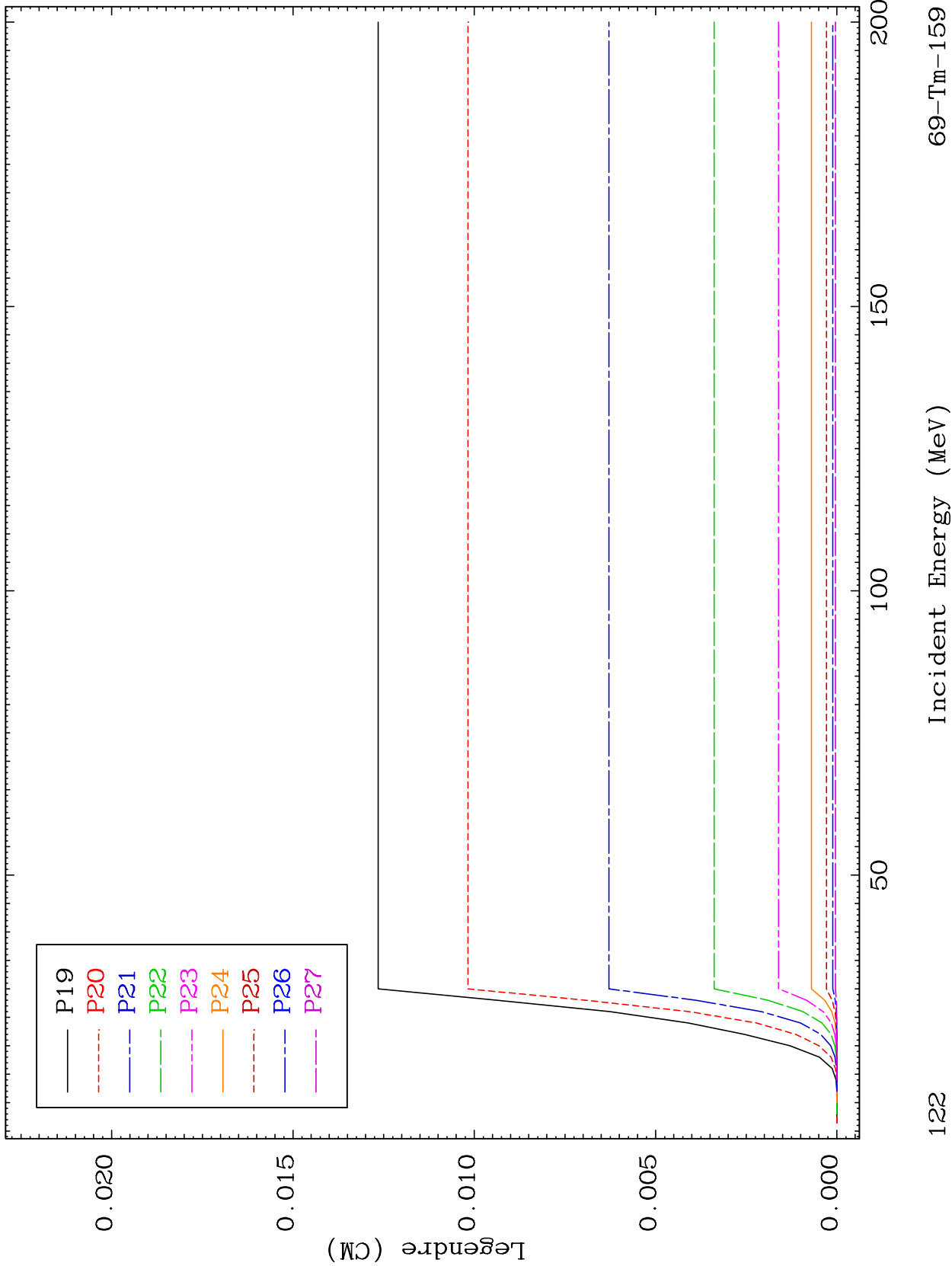
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 76 (n,n') Level Legendre Coefficients

69-Tm-159



122

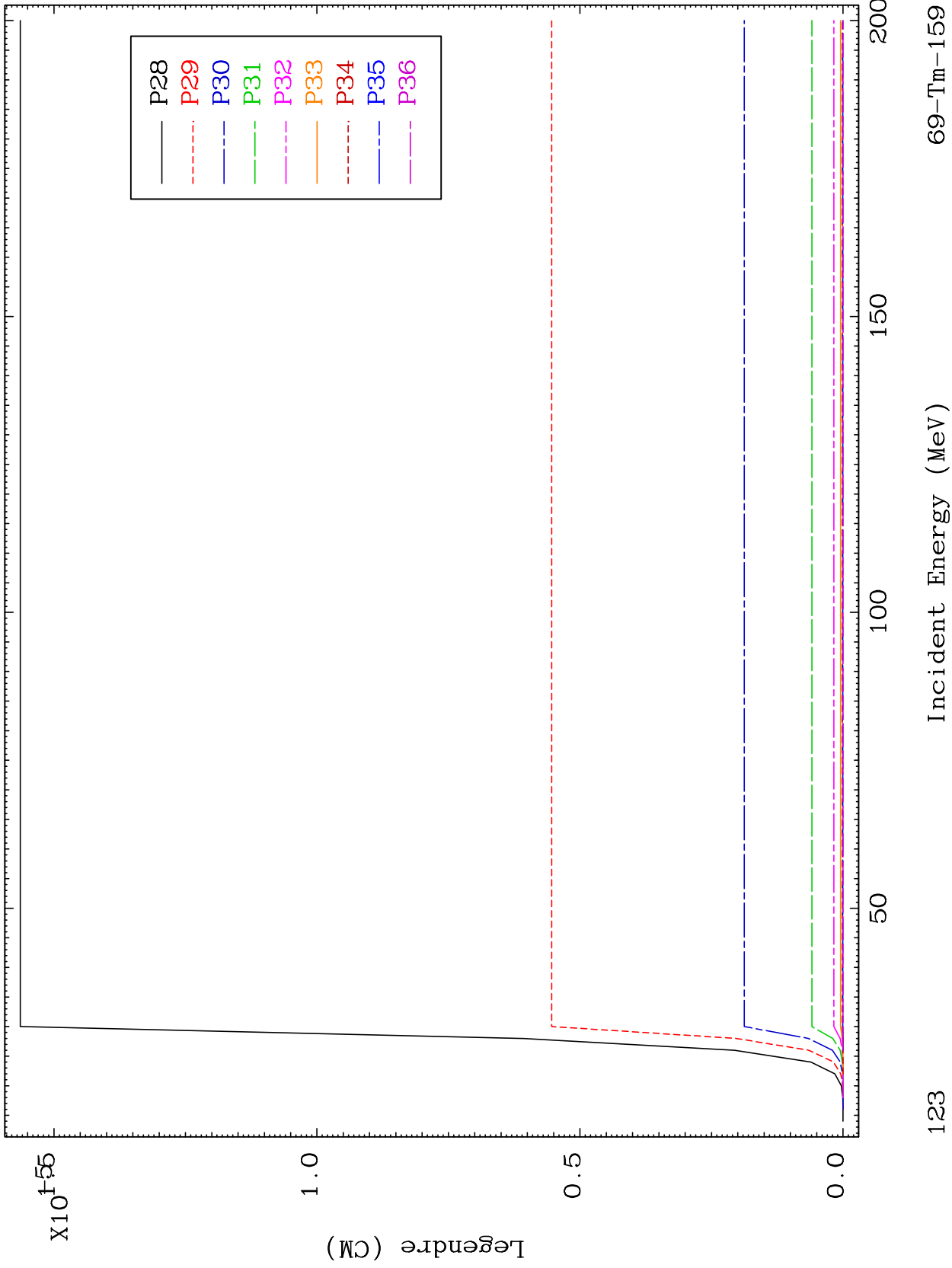
Incident Energy (MeV)

69-Tm-159

MAT 6895

MT= 76 (n,n') Level
Legendre Coefficients

69-Tm-159



123

Incident Energy (MeV)

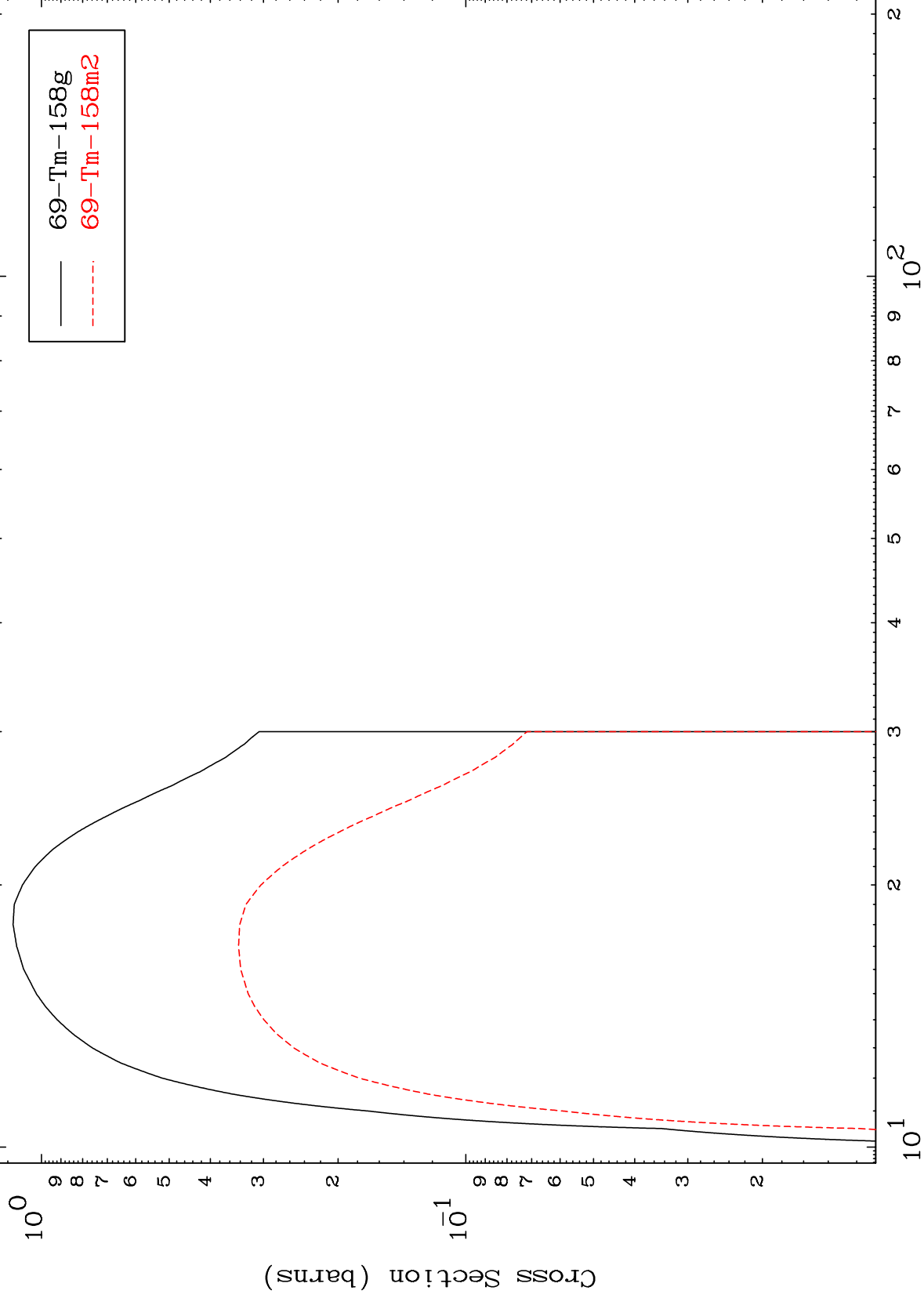
69-Tm-159

MAT 6895

(n,2n)

69-Tm-159

Radionuclide Production Cross Section



Incident Energy (MeV)

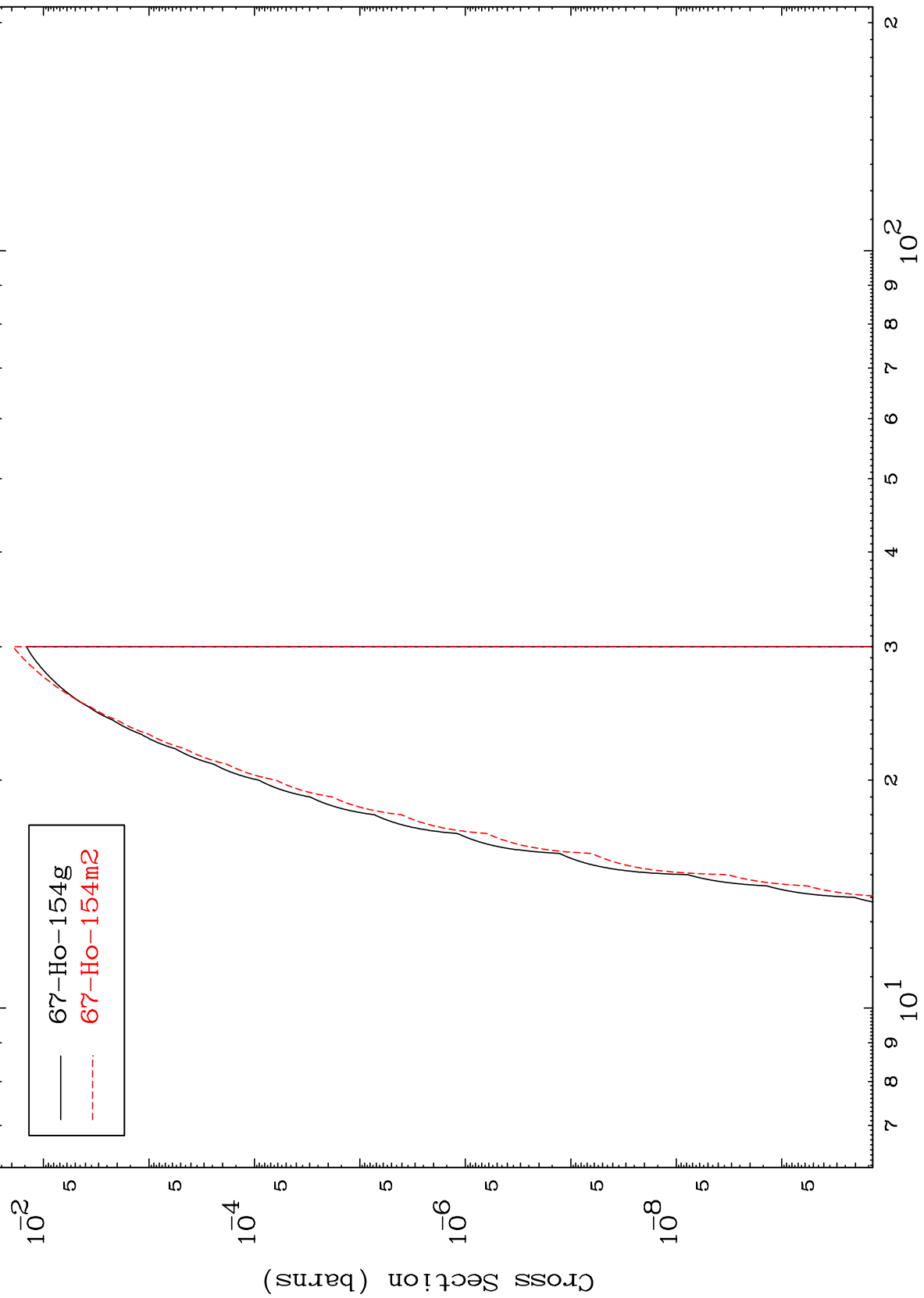
69-Tm-159

MAT 6895

$(n,2n) \alpha$

69-Tm-159

Radionuclide Production Cross Section



67-Ho-154g
67-Ho-154m2

125

Incident Energy (MeV)

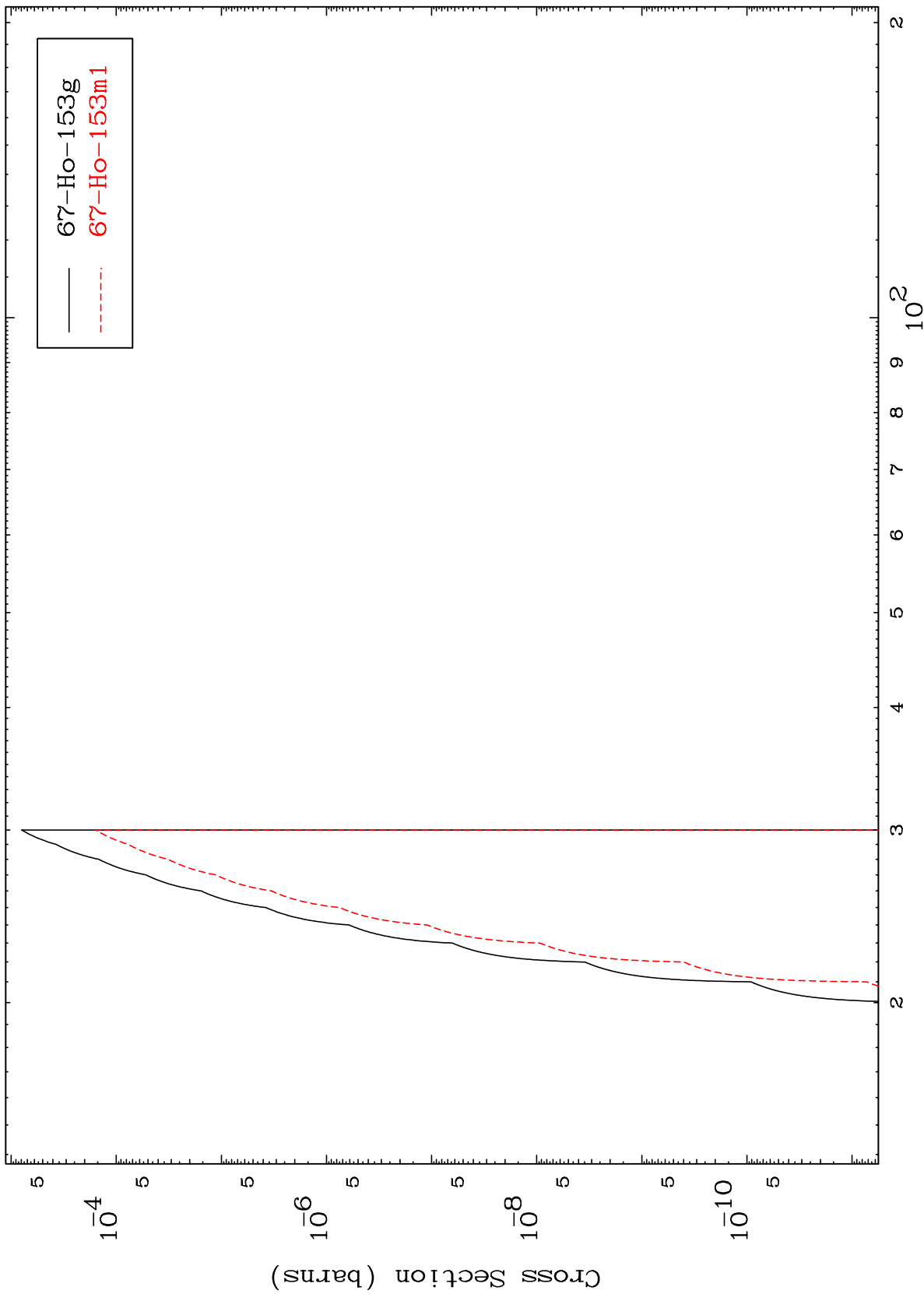
69-Tm-159

MAT 6895

$(n,3n) \alpha$

69-Tm-159

Radionuclide Production Cross Section



126

Incident Energy (MeV)

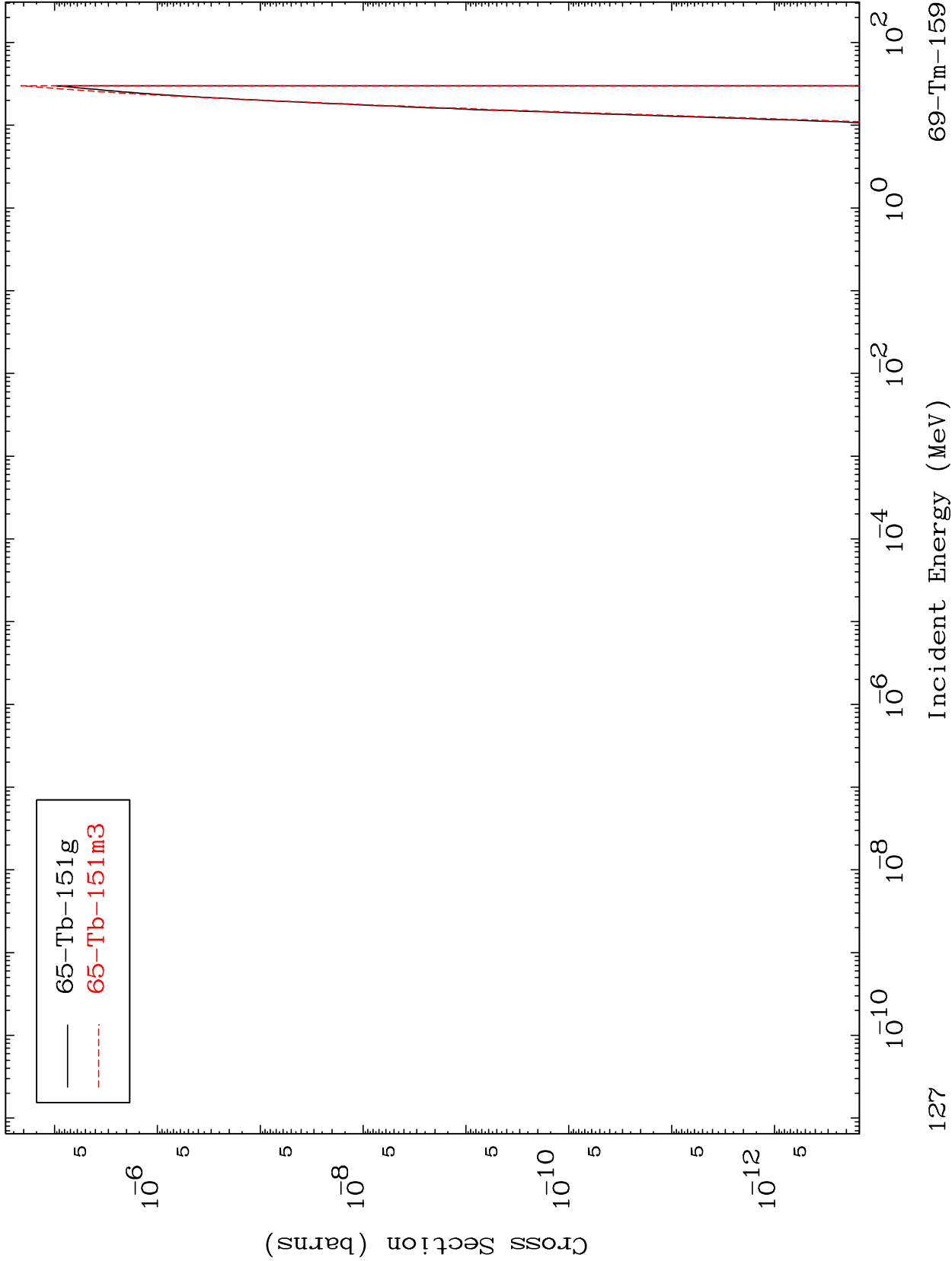
69-Tm-159

MAT 6895

(n,n') 2α

69-Tm-159

Radionuclide Production Cross Section

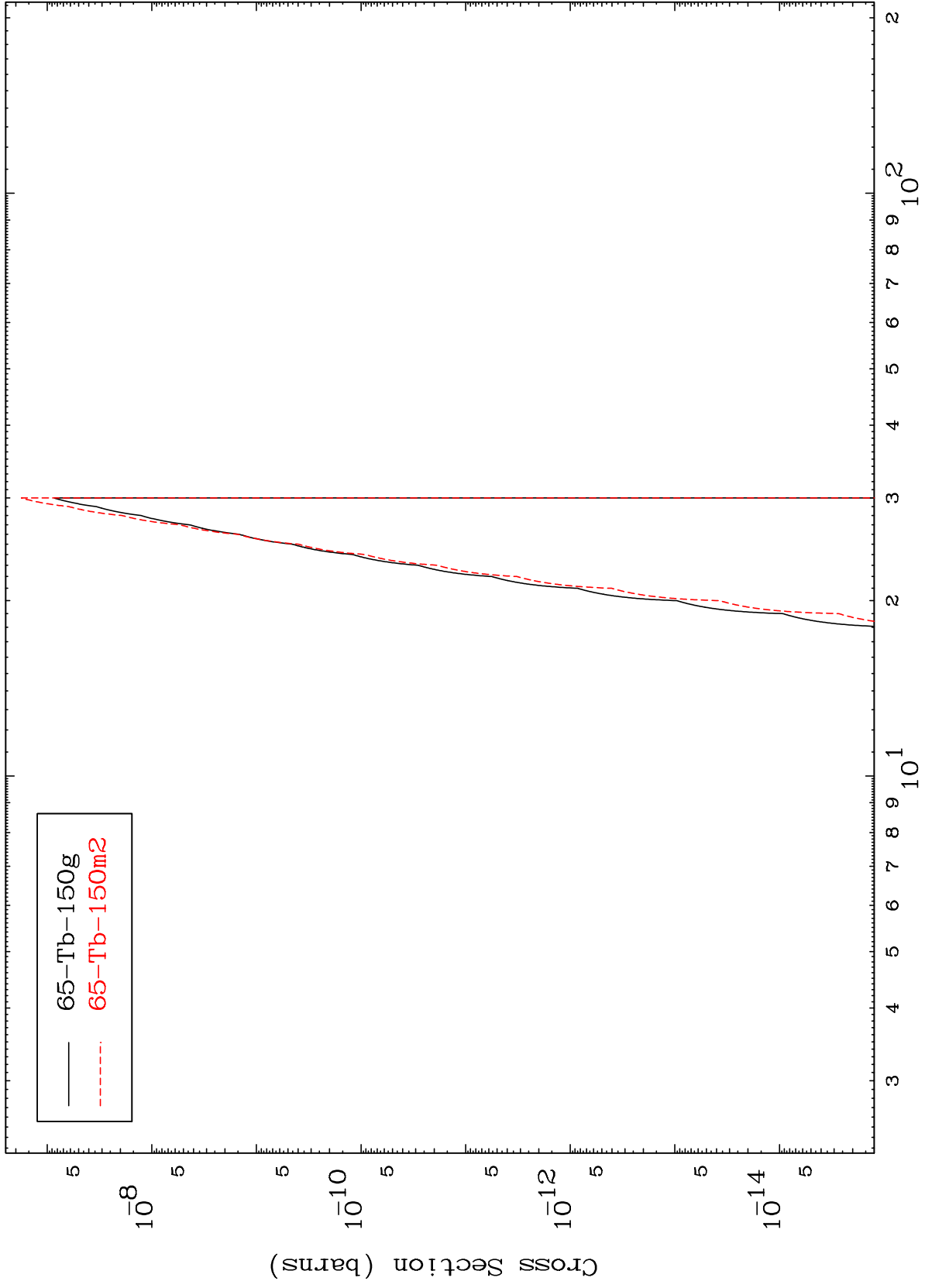


MAT 6895

$^{69}\text{Tm-159}$ 2α

$^{69}\text{Tm-159}$

Radionuclide Production Cross Section

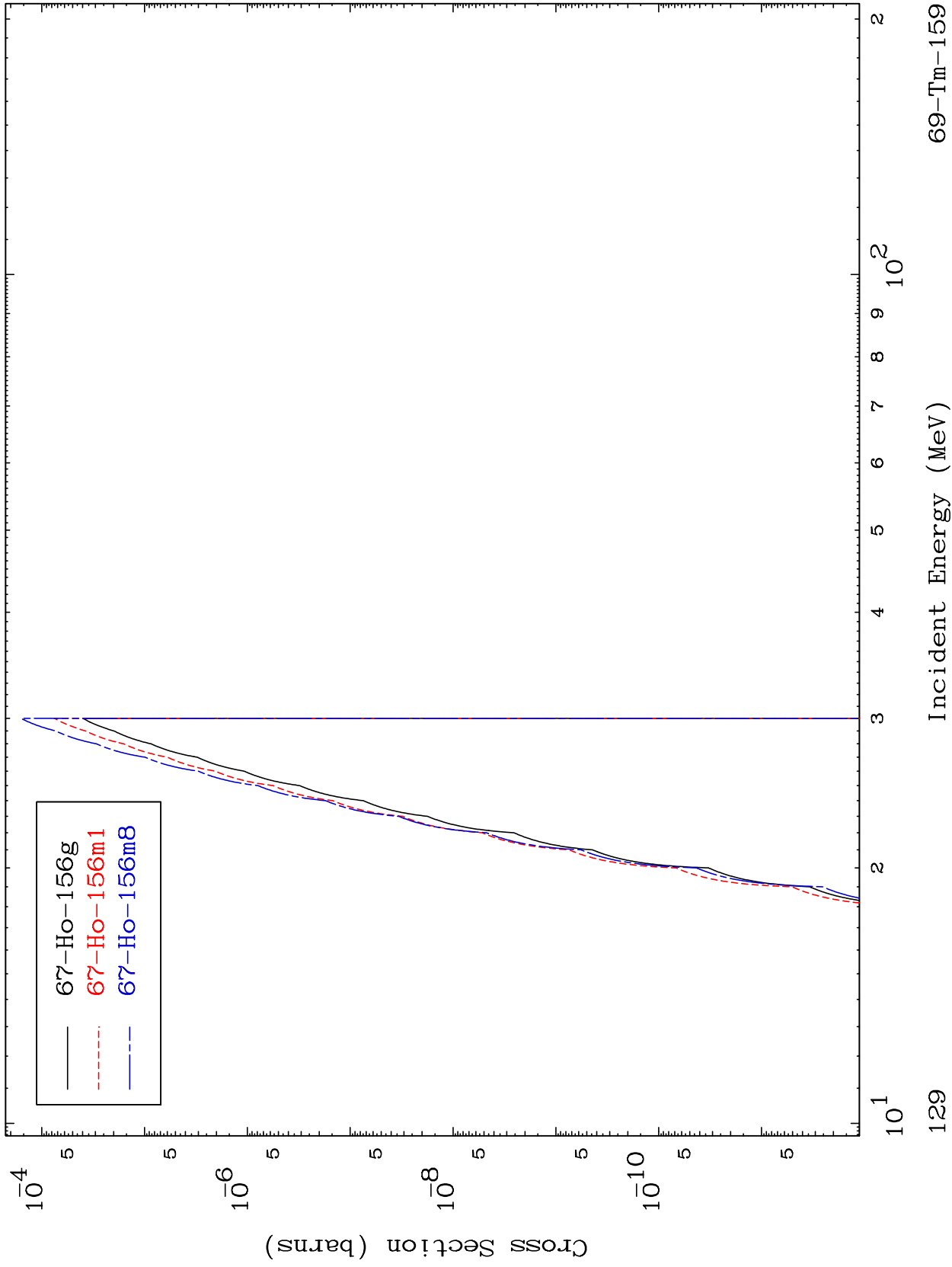


MAT 6895

(n,n') He-3

69-Tm-159

Radionuclide Production Cross Section



129

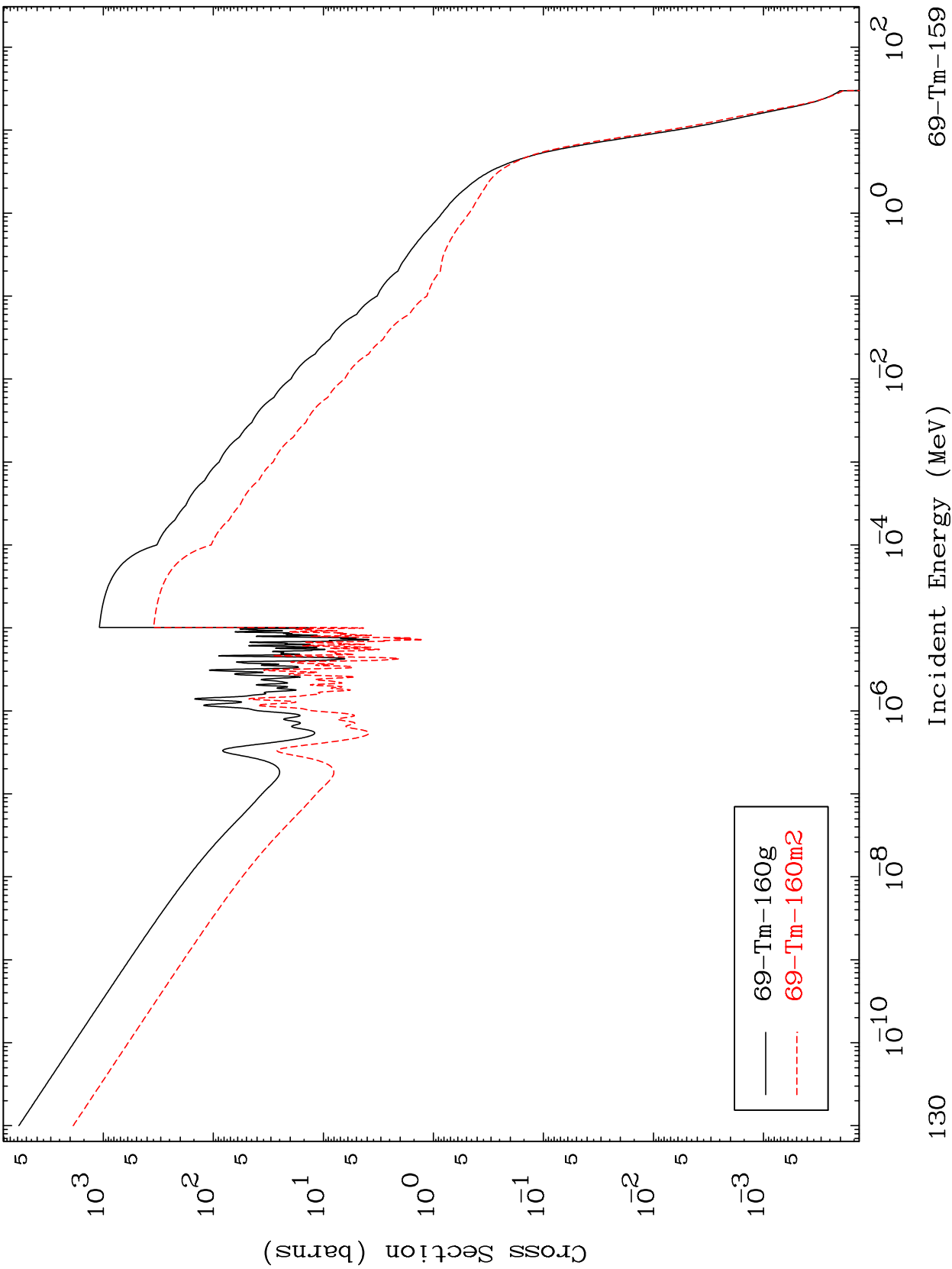
Incident Energy (MeV)

69-Tm-159

MAT 6895

69-Tm-159

(n, γ)
Radionuclide Production Cross Section



130

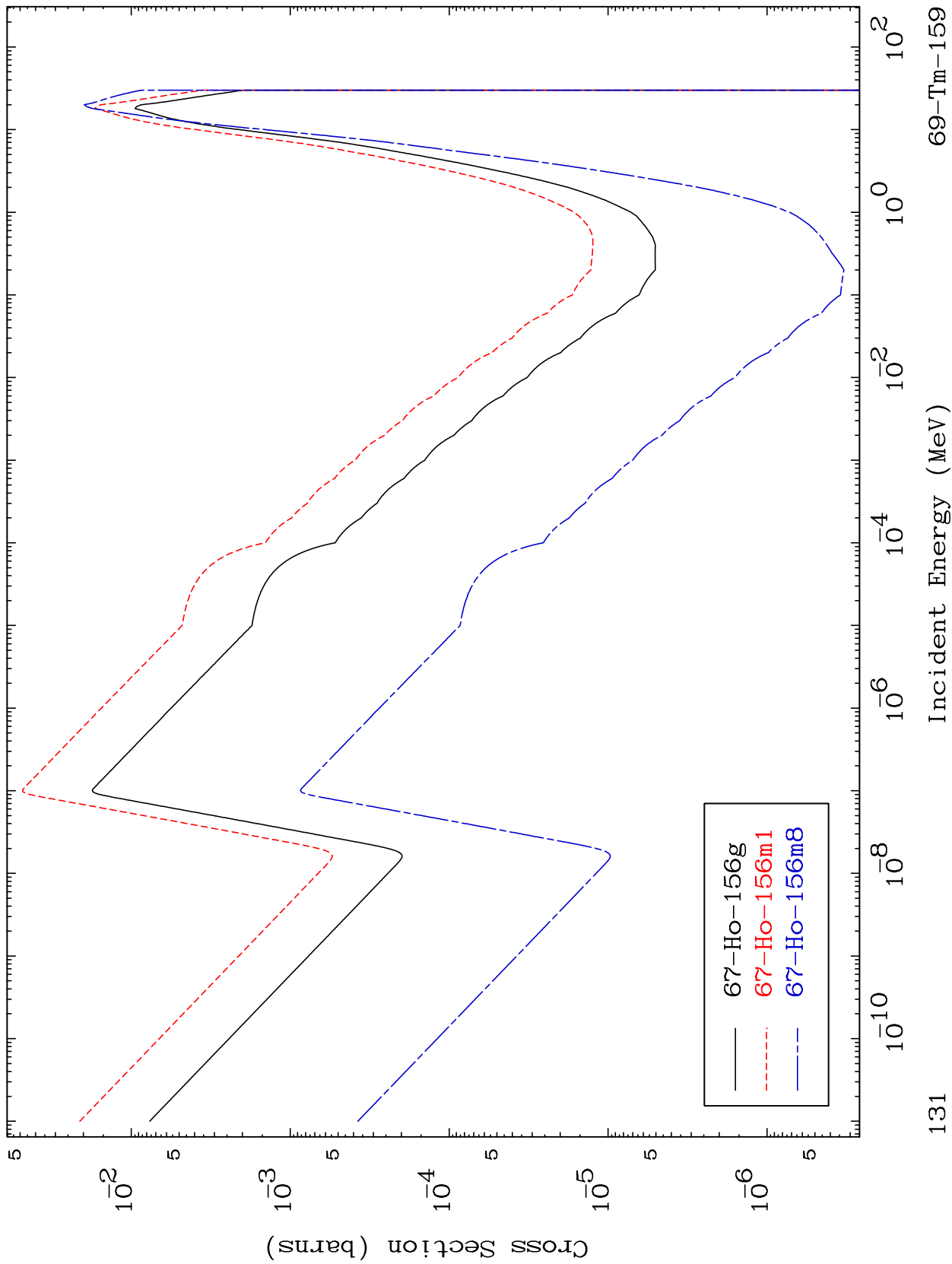
69-Tm-159

MAT 6895

(n, α)

69-Tm-159

Radionuclide Production Cross Section



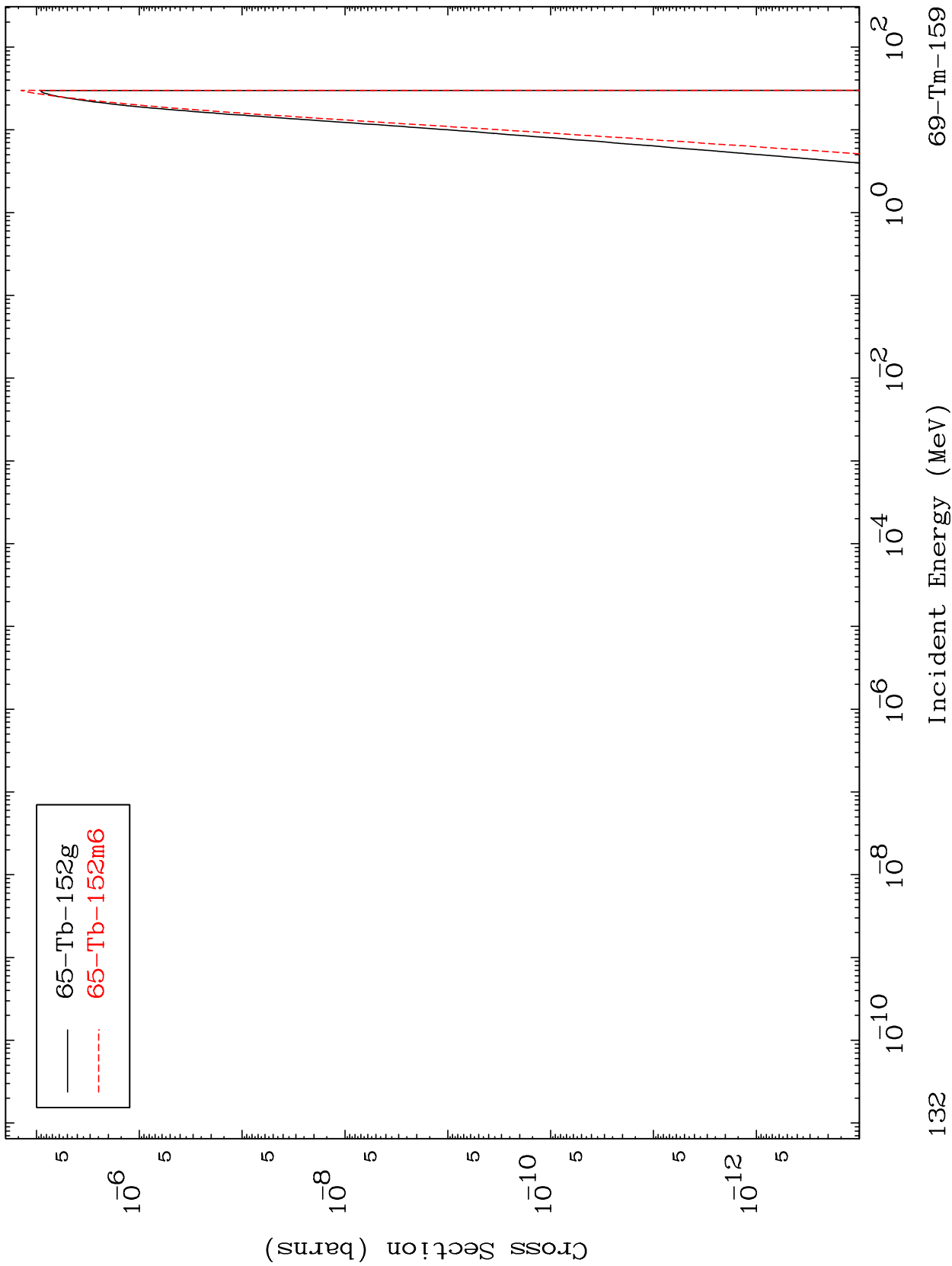
131

MAT 6895

(n,2α)

69-Tm-159

Radionuclide Production Cross Section

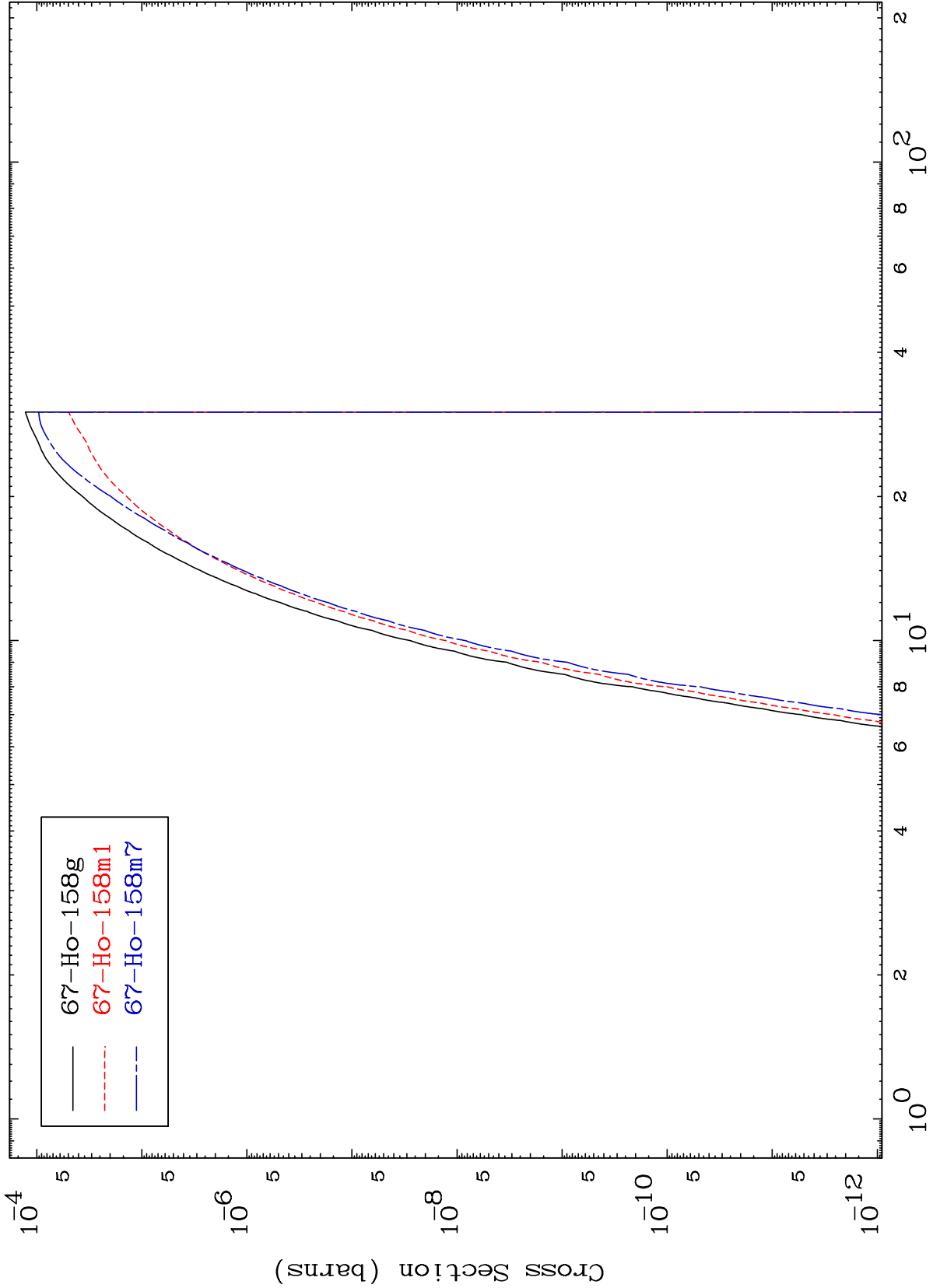


MAT 6895

(n,2p)

69-Tm-159

Radionuclide Production Cross Section



67-Ho-158g
67-Ho-158m1
67-Ho-158m7

133

Incident Energy (MeV)

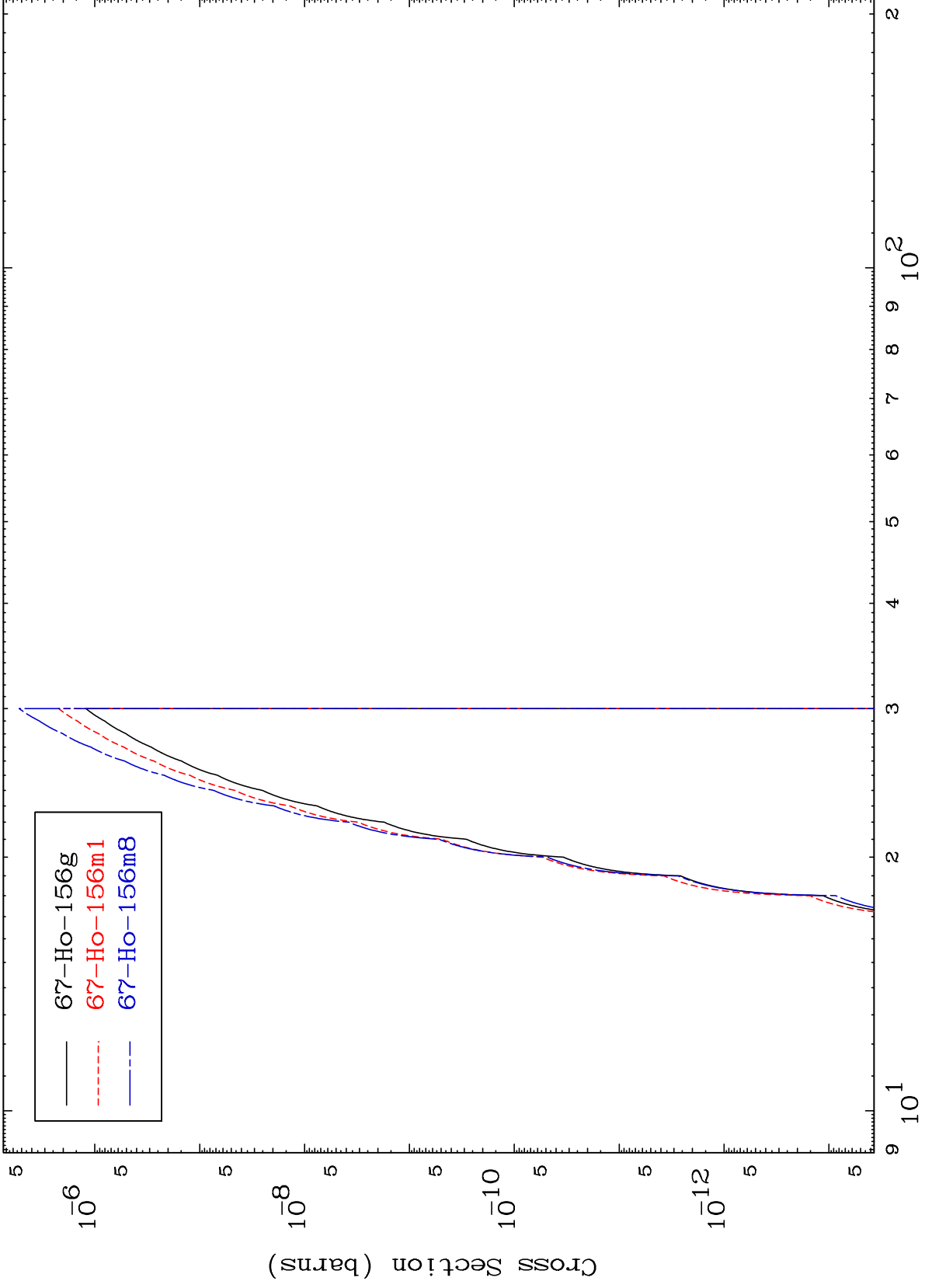
69-Tm-159

MAT 6895

(n,p) t

69-Tm-159

Radionuclide Production Cross Section



134

Incident Energy (MeV)

69-Tm-159